

Observing Log

Object type: Open Cluster

Caldwell
1

Object ID: N6C188

Const.: Cep

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/26/13

Time 19:00

Location RMCE

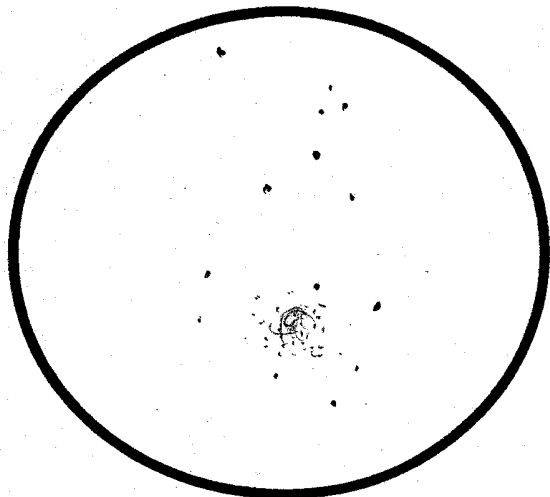
Seeing 8 Transparency 5

Instrument ETX 125

Size 126

Eyepiece 40

Field of view _____ Power 47



Can this cluster be fairly easily distinguished from the background stars?

- What is the overall shape of the object? Roundish
- How many stars can you count in the cluster? 20 + friz
- Are the stars more concentrated in any one particular area? No
- Is this cluster resolved fully or is there some background neb not noticed? unresolved
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

Observing Log

Object type: Open Cluster

Caldwell

1

Object ID: NGC 188 (C1)

Const.: Cep

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/19/3

Time 2018

Location RMCC

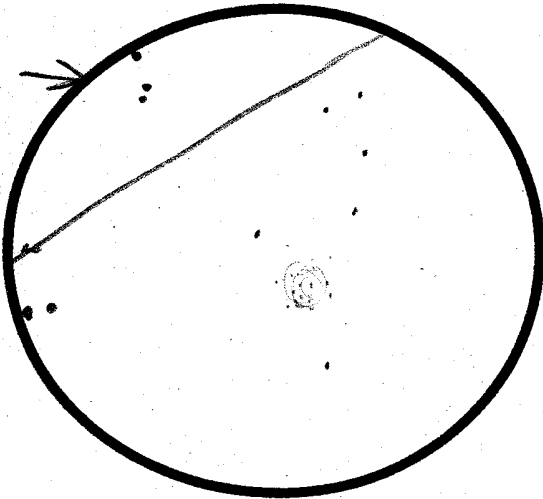
Seeing 7 Transparency 5-

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this cluster be easily distinguished from the background stars?
- What is the overall shape of the object? Round
- How many stars can you count in the cluster? only a few - mostly haze
- Are the stars more concentrated in any one particular area? No
- Is this cluster resolved fully or is there some background nebulosity noticed?
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? Great dble arranged one is yellow & orange bluish
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Satellite went right near it (SW, ~ 6m)

Observing Log

Object type: Open Cluster

Caldwell
1

Object ID: Nfc 188 (C1)

Const.: Col

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/19/3

Time 20:25

Location RMCC

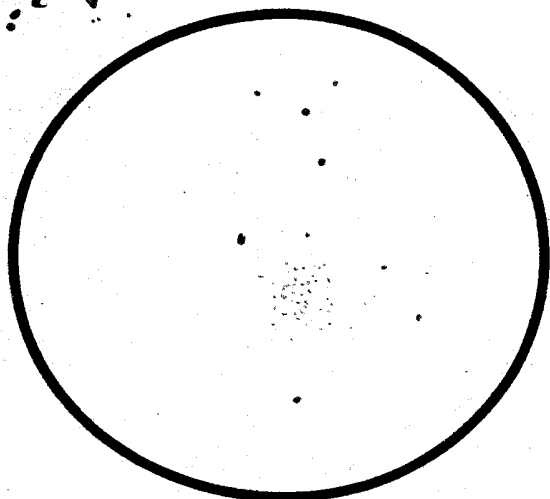
Seeing 7 Transparency 4

Instrument ETX

Size 125

Eyepiece 25

Field of view _____ Power 73



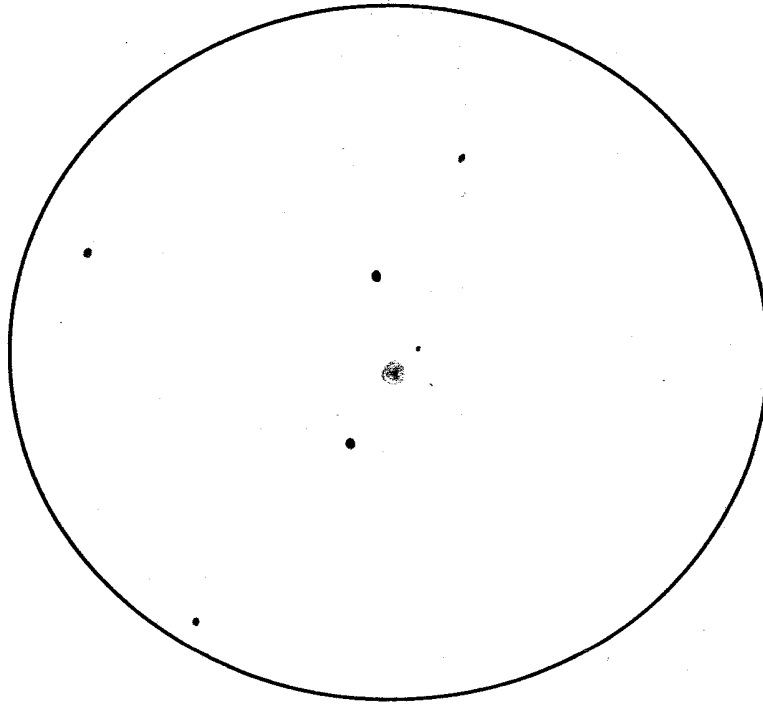
- Can this cluster be easily distinguished from the background stars?
- What is the overall shape of the object?
- How many stars can you count in the cluster?
- Are the stars more concentrated in any one particular area?
- Is this cluster resolved fully or is there some background nebulosity noticed?
- Is there any particular area where you notice an absence of stars in this cluster?
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors?
- Are there any other deep-sky objects in the same field of view? If so, what?

A few more
resolved but
still mainly
glow.

Description _____

Chowell 2

DATE 10/17/3 TIME 10:20 CST CDT CLARITY I II III IV V SEEING I II III IV V
INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X
OBJECT Nbc 40 LOCATION RMCO HOME whf



Wonderful - very easy c.s. & bluish misty
and haze, with great field.

Observing Log
Object type: Galaxy

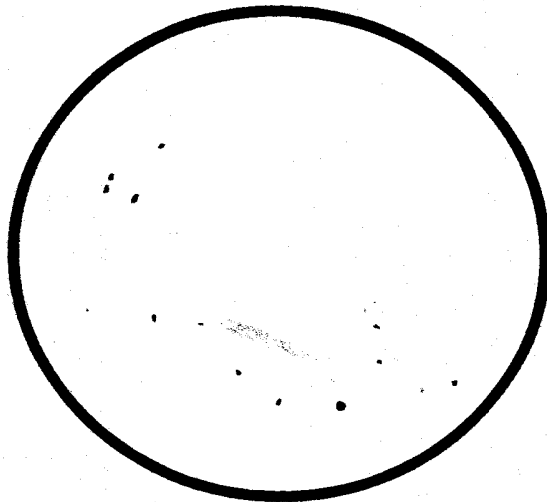
CALDWELL
3

Object ID: NGC 4236

Const.: Orion

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 3/11/4

Time 10:00 AM

Location LMce

Seeing 8 Transparency 5-

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ Power 47

- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Very elongated
- Is a core noticeable? No
- Is the core compact or stellar? —
- Can any detail be seen between the core and the outer envelope of the object? None
- Are the edges of the outer envelope sharp or (diffuse)
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Extraordinarily faint - av & patience required
No hope higher power

Observing Log

Object type: Nebula

Chandra
4

Object ID: CY (NGC 7023)

Const.: Cep

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/26/3

Time 7:25

Location NMCC

Seeing 8 Transparency 5

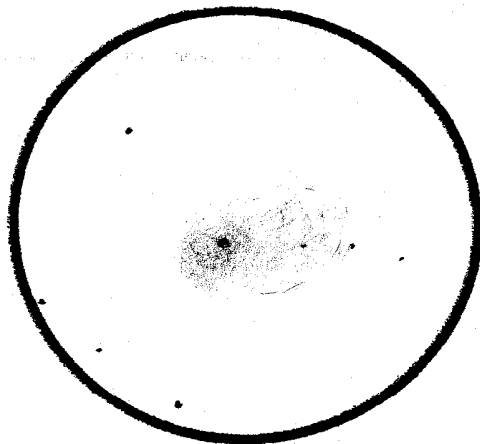
Instrument ETX

Size 125

Eyepiece 40

Field of view _____ Power 47

nf didn't help



- Can this nebula be seen with direct vision, or is averted vision required? by use for longer view
- Is there an overall shape of the object or is it simply irregular? see log
- Is any part of the outer edge of the nebula sharply defined? a bit, around 2nd star line
- Is any part of the nebula brighter or more concentrated? Near 7m
- Is there any particular area where you notice an absence of stars in this cluster? There is no cluster
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? Not @ 47x
- Is there an open cluster no nearby or involved or any obvious stars involved with this nebula? Yes
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? 125
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

Observing Log

Object type: Nebula

Crowne
4

Object ID: C4 (M6 7023)

Const.: Cep

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/26/3

Time 7:20

Location RMce

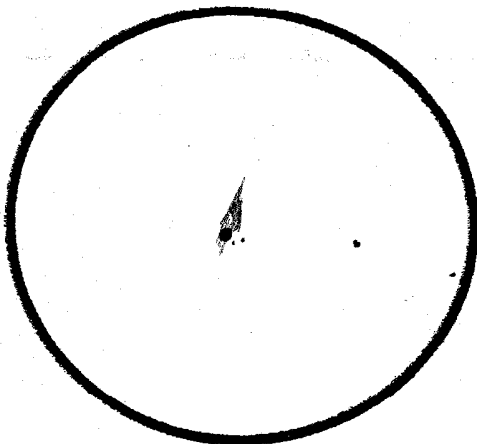
Seeing 9 Transparency 5+

Instrument ETX

Size 125

Eyepiece 25

Field of view _____ Power 73



- Can this nebula be seen with direct vision, or is averted vision required?
- Is there an overall shape of the object or is it simply irregular? Wow! The shaft of light
- Is any part of the outer edge of the nebula sharply defined? through 7m
- Is any part of the nebula brighter or more concentrated? described by
- Is there any particular area where you notice an absence of stars in this cluster? O'Meara
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what?

Description Distort even w/ averted vision but a.v. shows
the shaft bigger (esp. on N side) & confirms faint
stars as shown. Looks like what I imagine a pulsar

(1999 Cole & Pratt)

If I had X-ray eyes

Observing Log

Object type: Cluster/Nebula

CARDWELL

Object ID: NGC 7023 (C4)

4

Const.: CEP

Observer BY

RA: _____ Dec.: _____

Date 10/19/13

Mag: _____ Size: _____

Time 20:05

Location RMCC

Seeing 8 Transparency 5-

Instrument ETX

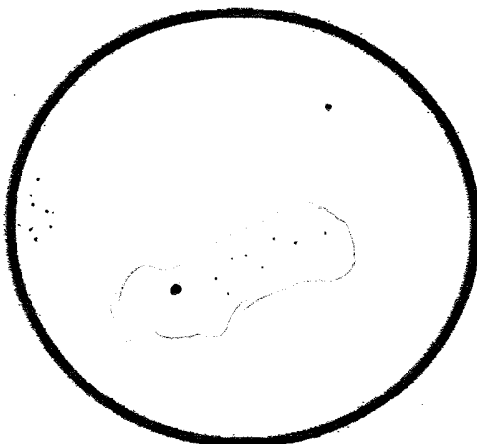
Size 125

Eyepiece 40

Field of view _____ Power 47

+NF

NOTE: 25mm W & w/o NF
also used (73x)



- Can both the cluster and nebula be seen with direct vision, or is averted vision required? nebula @ 6m cluster & res to neb.
- Is there an overall shape of the object or is it simply irregular? well, slight hump of bar shaped
- Is any part of the outer edge of the nebula sharply defined? No
- Are the stars more concentrated in any one particular area? How many stars are in the cluster? No ~10
- Is the cluster embedded in the nebulosity or is there a distinct separation?
- Is any part of the nebula brighter or more concentrated? Around 6 or 7m primary star
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? No
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

Observing Log

Object type: Galaxy

CRDWBLL
5

Object ID: IC 342

Const.: Cam

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/26/3

Time 9:05

Location AMCC

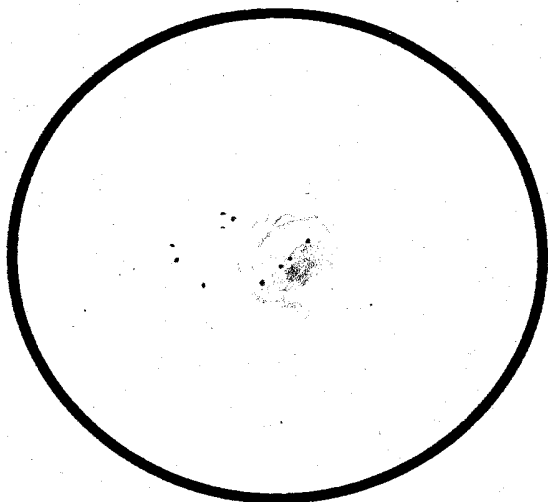
Seeing 8+ Transparency 5

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Football with hints of outer glow
- Is a core noticeable? Football
- Is the core compact or stellar?
- Can any detail be seen between the core and the outer envelope of the object? Just hints
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? Very indistinct
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

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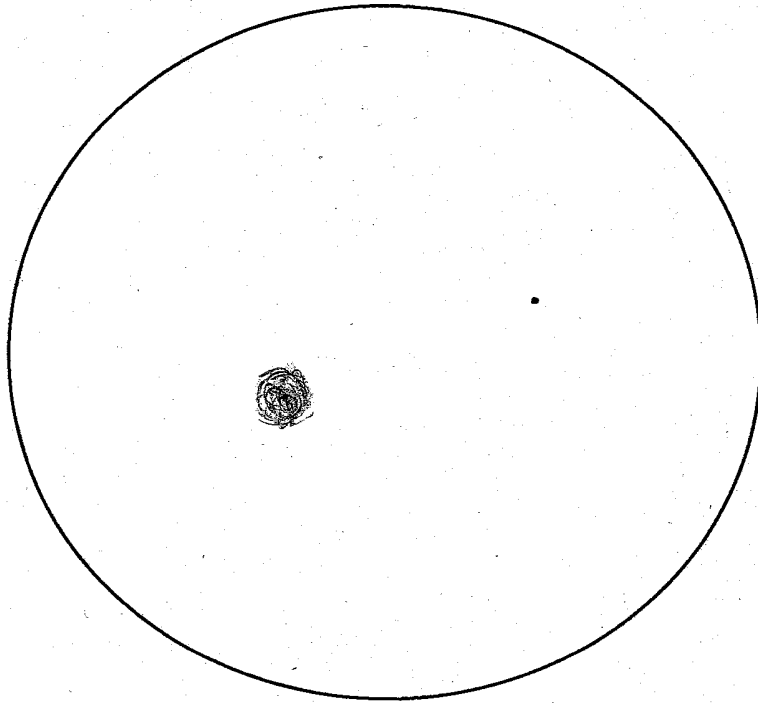
CALDWELL

6

DATE 6/9/3 TIME 12/20 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT N6C 6543 LOCATION RMCC HOME



Wow! Very hard to find by star-hop - finally did
& it's worth it. Very bright blue "fuzzy star"
153x easily shows nebula core, 475x shows very
distinct ring with inner portion filled in with a
"wormy" like complexion. Awesome.

Observing Log

Object type: Galaxy

CARDWELL

Object ID: N6C 2403

Const.: Cam

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 3/11/4

Time 8:05 pm CST

Location RMCC

Seeing 8 Transparency 4

Instrument ETX 125

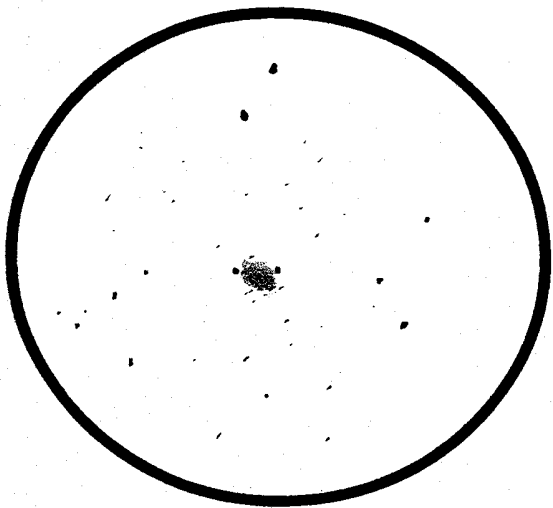
Size 125

Eyepiece 40

Field of view _____ Power 47

Also used 73x, 73x + nbf

153x



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Oval
- Is a core noticeable? only @ 153x
- Is the core compact or stellar?
- Can any detail be seen between the core and the outer envelope of the object? several fs overlay & mottling w/ 3ps
- Are the edges of the outer envelope med sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? yes
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Wow! Even @ 153x very bright

Observing Log

Object type: Open Cluster

CARWELL
8

Object ID: N14539

Const.: CAS

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/18/3

Time 23:00

Location RMce

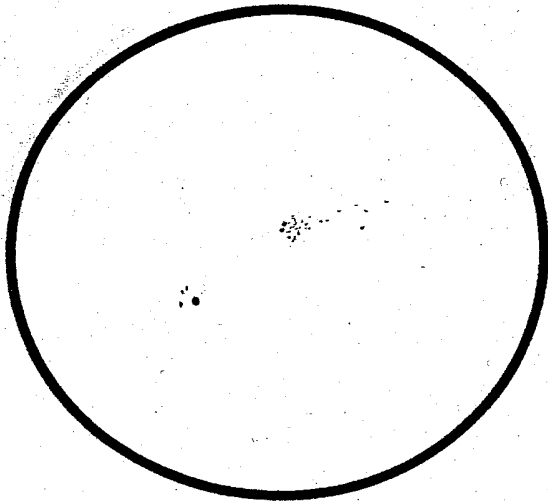
Seeing 8 Transparency 6

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this cluster be easily distinguished from the background stars?
- What is the overall shape of the object? "head of a comet"
- How many stars can you count in the cluster? 10 + line
- Are the stars more concentrated in any one particular area? line is much slimmer
- Is this cluster resolved fully or is there some background nebulosity noticed?
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description NOTE: PUTTED THRU 7X → 153X - still couldn't resolve

all of the stars, but up to 30 @ 153x

Observing Log

Object type: Nebula

CROWELL
9

Object ID: Sh 2-155 (C9)

Const.: CEP

Observer BY

RA: _____ Dec.: _____

Date 10/19/3

Mag: _____ Size: _____

Time _____

Location _____

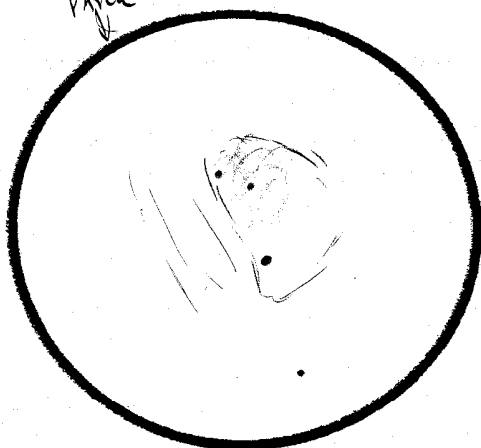
Seeing _____ Transparency _____

Instrument _____

Size _____

Eyepiece _____

Field of view _____ Power _____



- Can this nebula be seen with direct vision, or is averted vision required?
- Is there an overall shape of the object or is it simply irregular? Glob of glow - mostly just contrast
- Is any part of the outer edge of the nebula sharply defined?
- Is any part of the nebula brighter or more concentrated?
- Is there any particular area where you notice an absence of stars in this cluster?
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what?

Description ~ 20:47 1st SATELLITE (BY) - SSW 2 6m or 7m
20:52 SATELLITE (KC) UNKNOWN PATH & MAG
we saw small round glow near 2 - 1 sec a bit larger
enveloping all 3.

Observing Log
Object type: Open Cluster

CALDWELL 10

Object ID: N6C 663

Const.: Cas

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/14/3

Time 21:20

Location Home

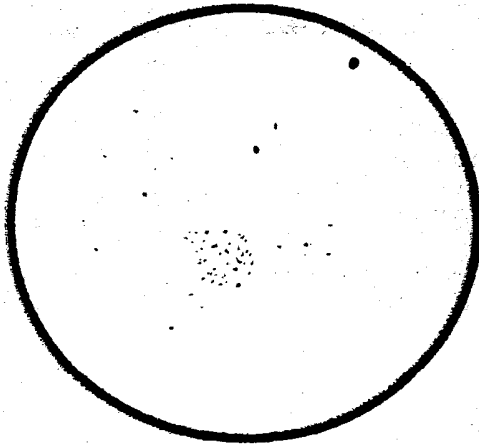
Seeing 8 Transparency 6-

Instrument ETX 125

Size 125mm

Eyepiece 40mm

Field of view _____ Power 47x



- Can this cluster be easily distinguished from the background stars? Yes
- What is the overall shape of the object? Eagle-sh
- How many stars can you count in the cluster? 40
- Are the stars more concentrated in any one particular area? Center "box"
- Is this cluster resolved fully or is there some background nebulosity noticed? Very close to fully resolved
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

Observing Log

Object type: Nebula

Caldwell

11

Object ID: NbC 7635 (C11)

Const.: CA3

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/17/0

Time 21:05

Location RNC

Seeing 7 Transparency 4

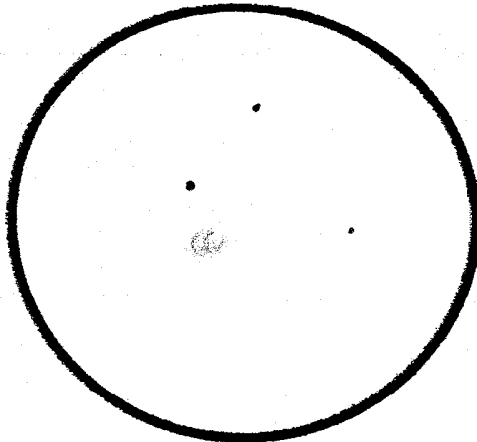
Instrument ETX

Size 125

Eyepiece 40

Field of view _____ Power 47x

W/NF



- Can this nebula be seen with direct vision, or is averted vision required?
- Is there an overall shape of the object or is it simply irregular? very faint and low
- Is any part of the outer edge of the nebula sharply defined? No
- Is any part of the nebula brighter or more concentrated? No
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? No
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula? No
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? M52 almost in field

Description RC saw it too

Observing Log

Object type: Galaxy

Crowell

Object ID: NGC 6946 (C12)

12

Const.: Cep

Observer BY

RA: _____ Dec.: _____

Date 10/26/3

Mag: _____ Size: _____

Time 9:16

Location RMCC

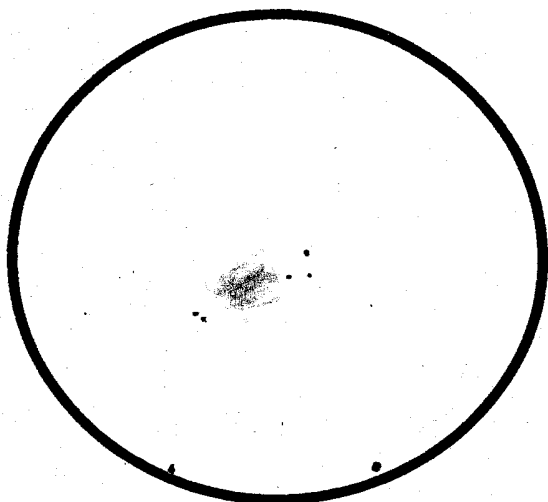
Seeing 8+ Transparency 5

Instrument E72

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Halo w/ "bar"
- Is a core noticeable? No
- Is the core compact or stellar? —
- Can any detail be seen between the core and the outer envelope of the object? Bar hinted
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? Just hint of bar
- Are there any other deep-sky objects in the same field of view? If so, what?

Description NGC 6939
(barely fits in 47x
off to NW)

Observing Log

Object type: Open Cluster

CARDWELL
13

Object ID: N6C 457

Const.: Cas

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/14/3

Time 20:55

Location Home

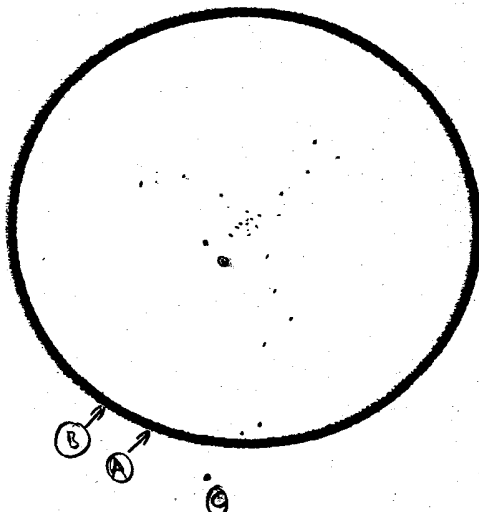
Seeing 8 Transparency 6-

Instrument ETX 125

Size 125mm

Eyepiece 40mm

Field of view _____ Power 4x



- Can this cluster be easily distinguished from the background stars? Yes
- What is the overall shape of the object? E.T.
- How many stars can you count in the cluster? 25
- Are the stars more concentrated in any one particular area? "Heart"
- Is this cluster resolved fully or is there some just a bit background nebulosity noticed? in heart - almost res'd
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? Yes A=gold
- Are there any other deep-sky objects in the same field of view? If so, what? No B=red
C=yellow

Description Just seen for "Universal Sampler" but better

view this time

Observing Log

Object type: Open Cluster

Chavell

13

Object ID: NbC 457

Const.: CA3

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/18/3

Time 22:50

Location NMCC

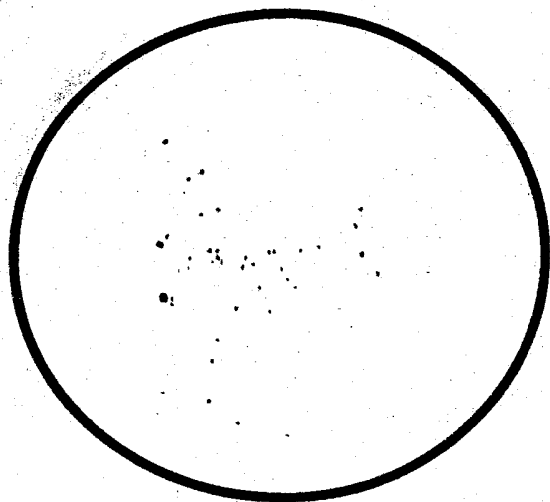
Seeing 8 Transparency 6

Instrument ETX

Size 125

Eyepiece 25

Field of view _____ Power 73



Can this cluster be easily distinguished from the background stars?

- What is the overall shape of the object? ET
- How many stars can you count in the cluster? 40
- Are the stars more concentrated in any one particular area? See dwg
- Is this cluster resolved fully or is there some background nebulosity noticed?
- Is there any particular area where you notice an absence of stars in this cluster? dwg
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? brightest = golden
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

CARDWELL

14

DATE 1/3/3 TIME 8135 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT NGC 869 LOCATION RMCC HOME



NICH & KNOTTY - GREAT VIEW

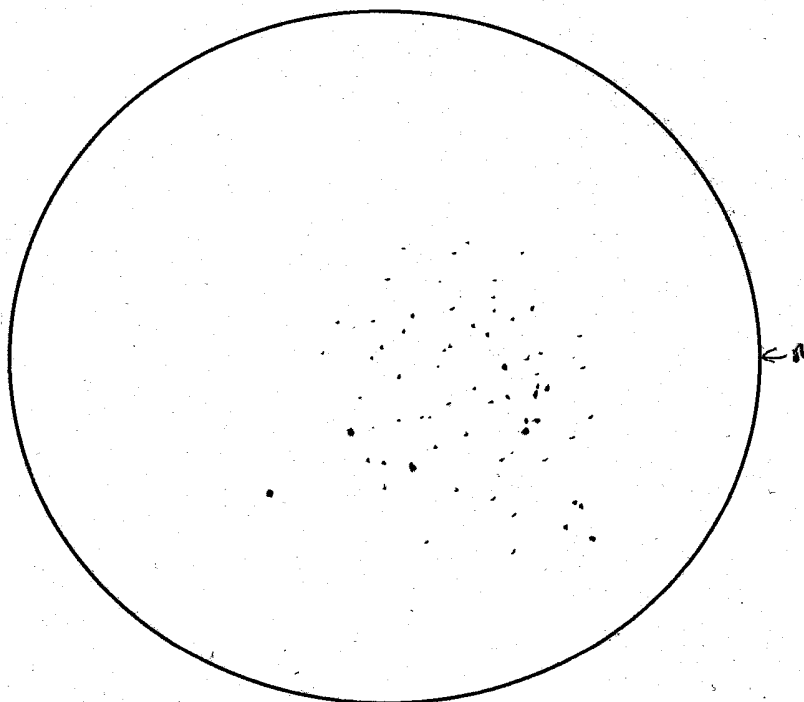
CARDWELL

14

DATE 1/3/3 TIME 7:30 CST III CLARITY I II III IV V SEEING II III IV V

INSTRUMENT BTX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT N6C 884 LOCATION RMCC HOME



WANDERER TO ALWAYS - FILLS FIELD; "n" = RED STAR

Observing Log

Object type: Planetary Nebula

CARDWELL
15

Object ID: NGC 6826

Const.: Cyg

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B7

Date 10/18/13

Time 2015

Location RMce

Seeing 6 Transparency 5

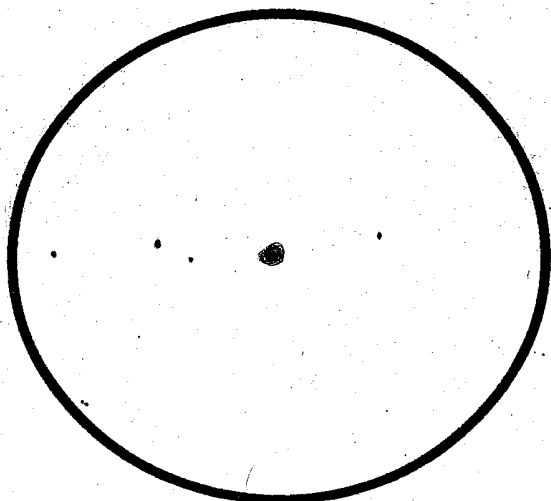
Instrument ETX 125

Size 125

Eyepiece 12.5

Field of view _____ Power 153

+NF



- What is the overall shape? Round
- Is this planetary ^{153x}easy or ^{47x}difficult to identify in your field?
- What is the color of this planetary? Very blue
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse?
- Is the center brighter, darker, or the same brightness as the edges? until AV - then "blinks" a bit
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description 16 Cyg nice nearby. Never have seen real huge
blink to this very bright PN.

CARDWELL

16

Object Name: NFC 7243
Constellation: LAC
R.A./Dec: _____

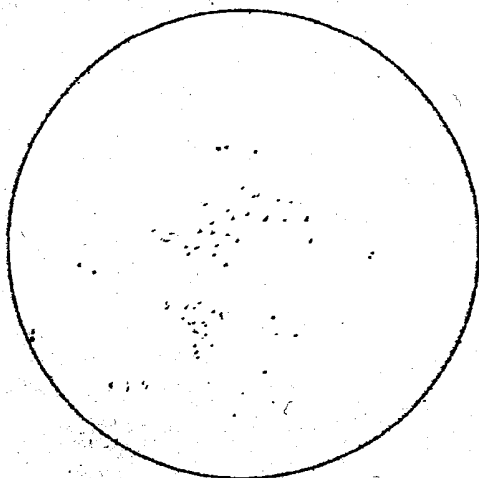
OBSERVATION LOG

Name: By
Date: 10/15/2
Time: 20:50
Site: RMCC

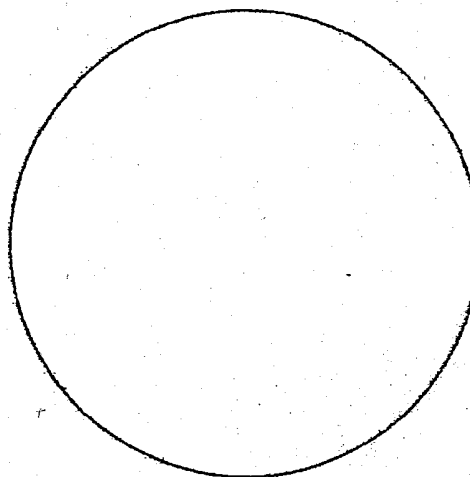
Instrument: ETX 125
Power: 47x
Seeing (1-10): 8
Transparency (1-5): 5

FIELD DRAWING

Low Power



High Power



DESCRIPTION

NICE CLUSTER, EASY TO DISTINGUISH
SAME $\checkmark$ SHAPE AS SEEN IN CLY,
BUT WITH DISTINCT GAP IN MIDDLE
NSD STARS HERE, FULLY RESOLVED

Observing Log

Object type: Galaxy

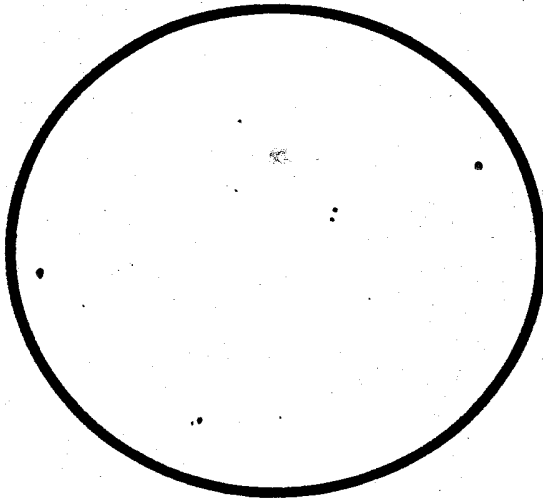
Chandra
17

Object ID: NGC 147

Const.: CAS

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 10/18/3

Time 21:55

Location RMce

Seeing 7 Transparency 5

Instrument ETX

Size 125

Eyepiece 40

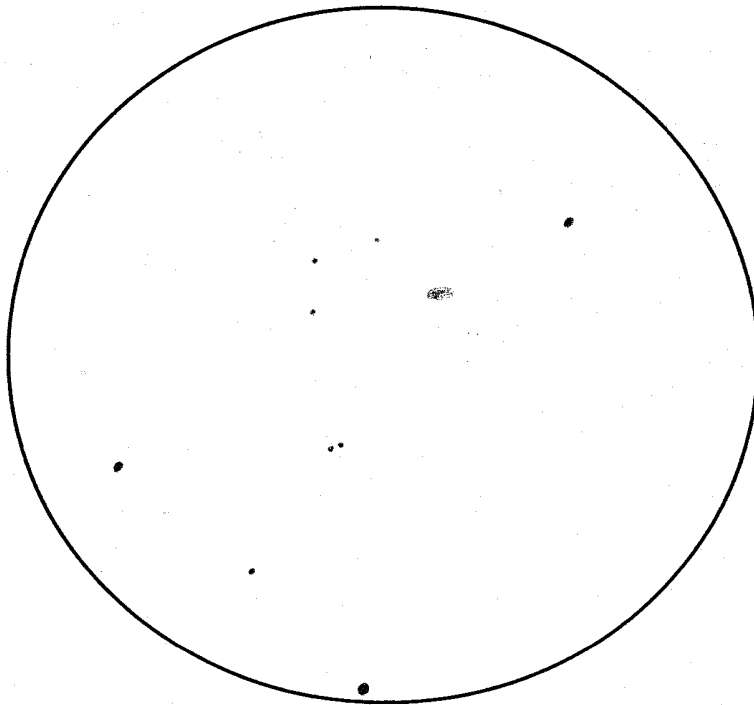
Field of view _____ Power 47

- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? 2x1 oval
- Is a core noticeable? No
- Is the core compact or stellar? —
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

CALOWELL 17

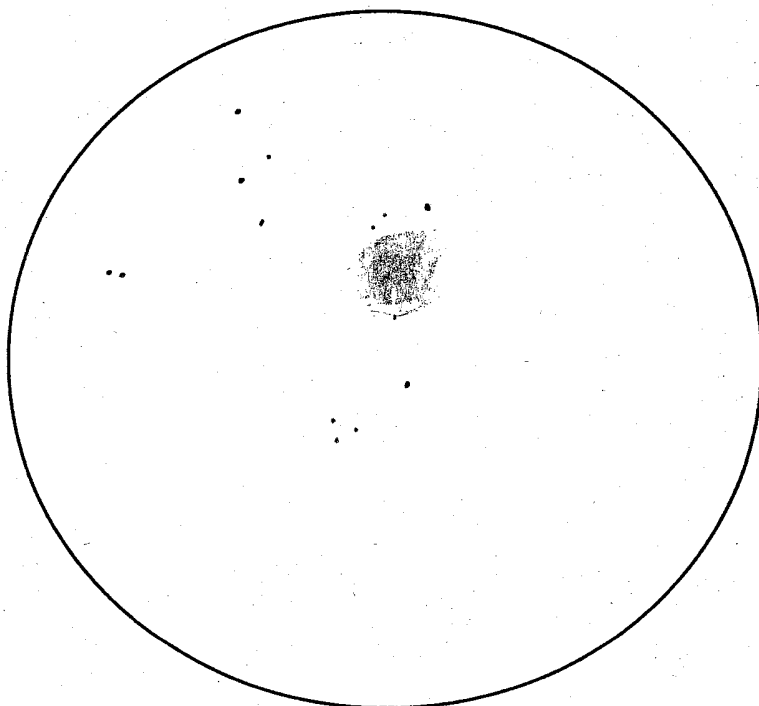
DATE 10/17/13 TIME 10:50 CST CDT CLARITY I II III IV V SEEING II III IV V
INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X
OBJECT N6C 147 LOCATION RMCC HOME



Very small - seemed elongated. A.V. only
Very very faint.

CALDWELL 18

DATE 10/17/3 TIME 10:40 CST CDT CLARITY I III IV V SEEING I III IV V
INSTRUMENT ETX-125 10x50 EYE POWER 10X 47X 153X 475X
OBJECT N6c 185 LOCATION RMCO HOME _____



Not too hard - once noticed w/AV can see directly
As time wore on, extended halo not quite as bright
as shown. No nucleus seen.

Observing Log

Object type: Nebula

"COCOON"

ORLOWELL
19

Object ID: IC 5146

Const.: Cy6

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/18/3

Time 21:20

Location NMCC

Seeing 7 Transparency 5

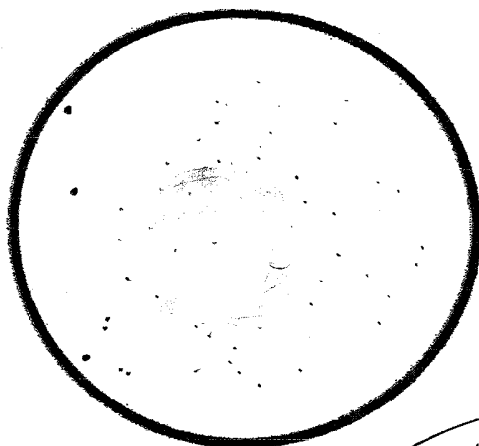
Instrument ØX

Size 125

Eyepiece 40

Field of view _____ Power 47

+NF



- Can this nebula be seen with direct ^{barely} vision, or is averted vision required? ^{much better}
- Is there an overall shape of the object or is it simply irregular? Don't - can almost trace entire circle
- Is any part of the outer edge of the nebula sharply defined? Just on S&SE near 2 stars & see hole in field easily
- Is any part of the nebula brighter or more concentrated? S&SE
- Is there any particular area where you notice an absence of stars in this cluster? Yes - center much less rich
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? ^{center} No
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula? No
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

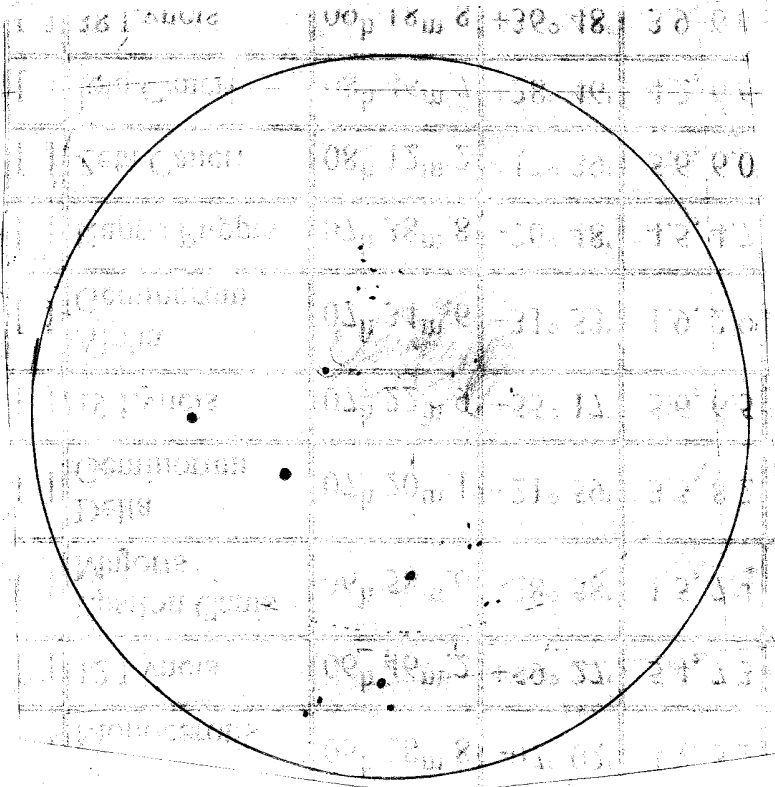
(1999 Cole & Pratt)

CADWELL 19
CFN #2

DATE 7/24/3 TIME 2:10 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT IC 5146 (Cocoon Neb) LOCATION RMCC HOME _____



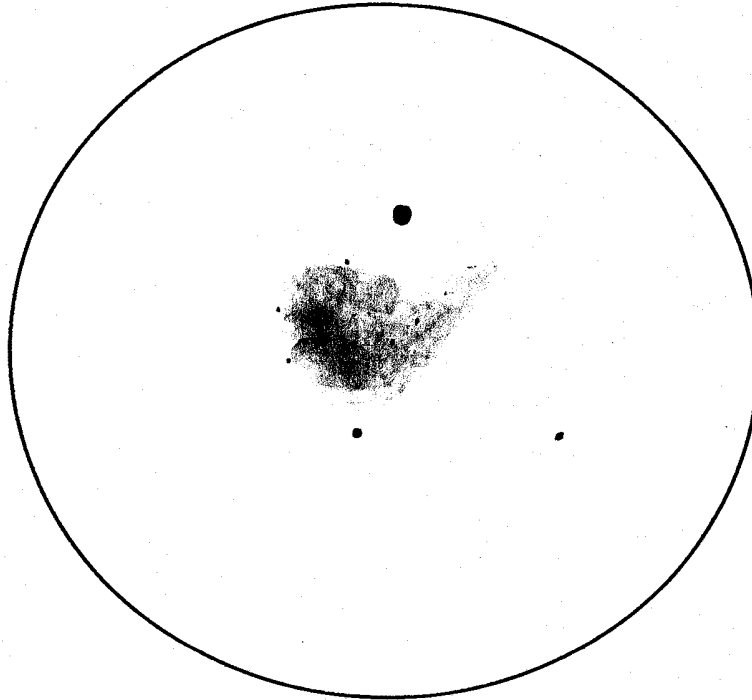
W/ Neb Filter Still very tenuous but seen (barely)

CARDWELL 20
CFN#2

DATE 7/23/5 TIME 11:15 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT NOC 7000 LOCATION RMCC HOME



Easily seen - not sure of shape & very
hard to draw its subtle glow in eye.

CALDWELL
20

Object Name: NbC 7000
Constellation: Cyg
R.A./Dec: _____

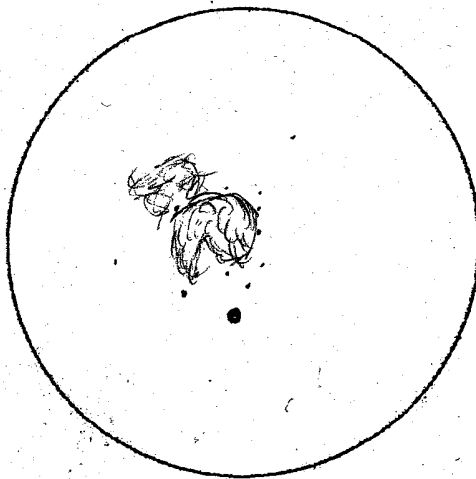
OBSERVATION LOG

Name: BY
Date: 9/20/13
Time: 12:10 CDT
Site: RMCC

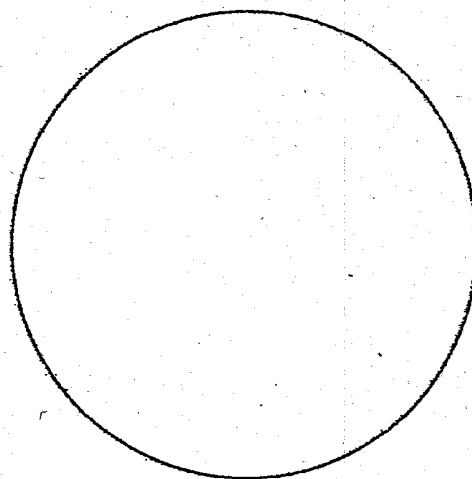
Instrument: EYE
Power: 1X
Seeing (1-10): 9
Transparency (1-5): 5

FIELD DRAWING

Low Power



High Power



DESCRIPTION

Easily seen - stands out well from rest of Milky Way
as a distinct nebula - Pelican not as obvious.

Observing Log

Object type: Galaxy

CALDWELL

Object ID: NBC 4449

Const.: CnV

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 3/11/4

Time 10:05 CST

Location RMCC

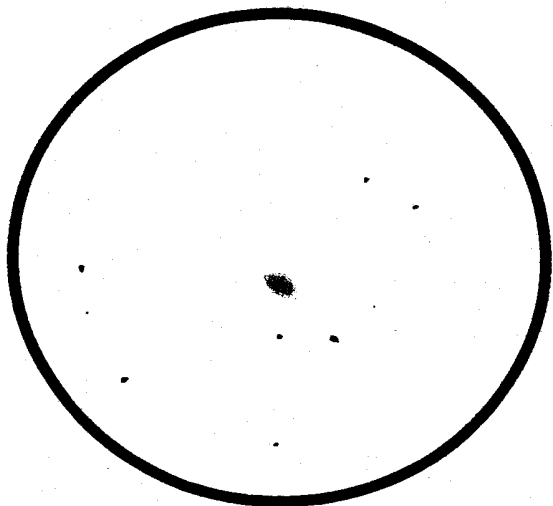
Seeing 8 Transparency 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? elong oval
- Is a core noticeable? No
- Is the core compact or stellar? —
- Can any detail be seen between the core and the outer envelope of the object?
- Are the edges of the outer envelope sharp or partly diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Glow tends to fill out w/ a/v
↑

Description _____

Observing Log

Object type: Galaxy

CROWELL
23

Object ID: NIC 891

Const.: And

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 11/17/02

Time 8:40pm CST

Location RMCC

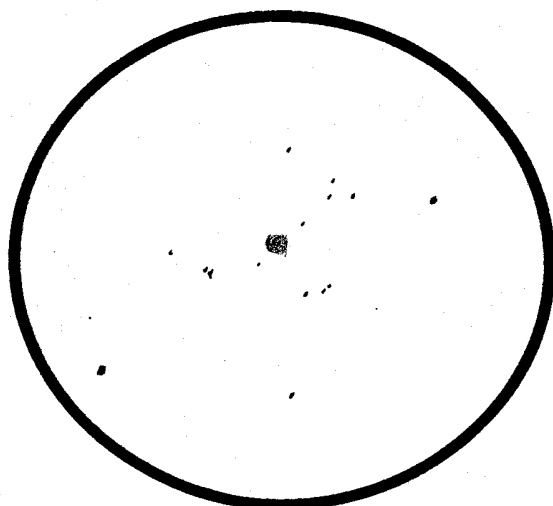
Seeing 9 Transparency 4+

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this galaxy be seen with direct vision, or is pretty much averted vision required?
- What is the overall shape? Roundish glow
- Is a core noticeable? Yes
- Is the core compact or stellar? also a dim star near nuc
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Not easy to get detail - @ low power
rely on a.v. to see clearly
see next

Observing Log

Object type: Galaxy

CRAWELL
23

Object ID: NHC 8911

Const.: And

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 11/19/3

Time 8:45pm CST

Location RMCC

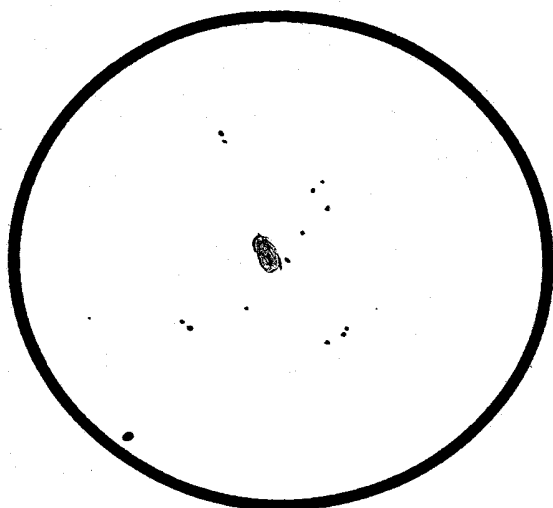
Seeing 9 Transparency 4+

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ Power 73



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? oval off from 10m star
- Is a core noticeable? Yes
- Is the core compact or stellar?
- Can any detail be seen between the core and the outer envelope of the object? Not much
- Are the edges of the outer envelope fairly sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? Hint
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Much easier @ 73x!

Observing Log

Object type: Galaxy

C 24

Object ID: Ngc 1275

Const.: Per

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 11/19/3

Time 9:00 CST

Location RMCC

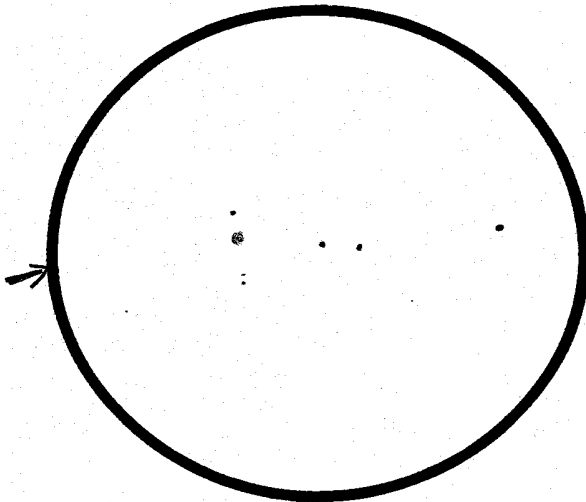
Seeing 8+ Transparency 4+

Instrument ETX125

Size 125

Eyepiece 25

Field of view _____ Power 73



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Round
- Is a core noticeable? Stellar
- Is the core compact or stellar?
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No - can't get others.

Description Very small - didn't push past 73x

No detail - just a glow seen

Observing Log

Object type: Globular Cluster

CARDWELL

25

Object ID: Nbe 2419

Const.: Lyn

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 1/10/14

Time 8:00 CST

Location RMCC

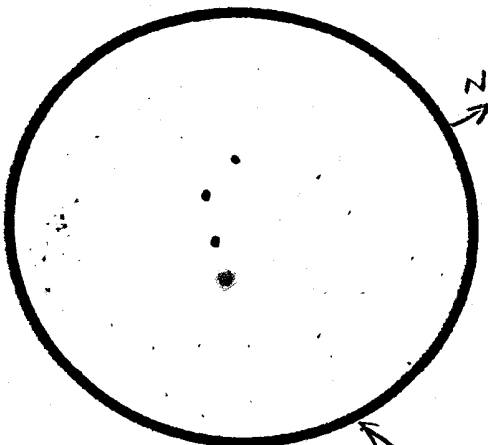
Seeing 5 (wind) Transparency 6

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ Power 73x



← COPY SHOWS "NUCLEUS" - THERE WAS NONE - BY 1/12/04

- Can this cluster be seen with direct vision, or is averted vision required? Wind "brings it out"
- Is the core unusually bright, compact or not distinguishable? Just an unresolved glow
- Is this globular cluster highly or loosely concentrated? presumed
- Is any part of the cluster resolved into stars? No
- Is any mottling visible? Barely
- Can the edges be resolved? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Seen but cannot resolve - it is noticeably
"globular" in glow - not a galaxy
interesting little gray to SE as shown

Observing Log
Object type: Galaxy

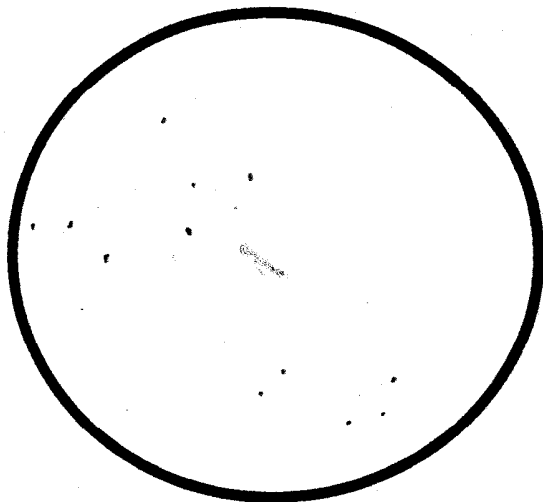
Carver
26

Object ID: M84 4244

Const.: Can

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 3/11/4

Time 10:20 CST

Location RMCC

Seeing 8 Transparency 5

Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ Power 47

- Can this galaxy be seen with direct vision, or is averted vision required? almost
- What is the overall shape? long "swipe"
- Is a core noticeable? No
- Is the core compact or stellar? —
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse? diffuse
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? None
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Very faint - almost as faint as C3

Observing Log

Object type: Nebula

CARDWELL
27

Object ID: N6C 6888

Const.: Cyg

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 10/26/3

Time 9:40

Location RMCC

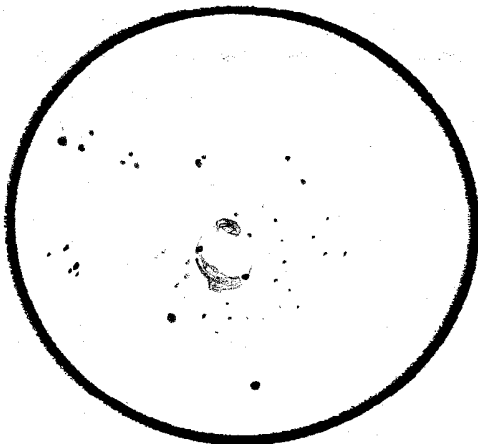
Seeing 8- Transparency 5

Instrument ETX

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this nebula be seen with direct vision, or is averted vision required? but helps a lot
- Is there an overall shape of the object or is it simply irregular? Arc
- Is any part of the outer edge of the nebula sharply defined? see long
- Is any part of the nebula brighter or more concentrated? around stars
- Is there any particular area where you notice an absence of stars in this cluster? In "hole" in middle
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? obvious
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula? arc edges
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? (AV)
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description GIVES 3-DIMENSIONAL EFFECT W/NO STARS IN
MIDDLE DARK AREA

Observing Log
Object type: Open Cluster

Chowell
28

Object ID: N6C 752

Const.: And

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 11/19/13

Time 8:25 pm CST

Location NMCC

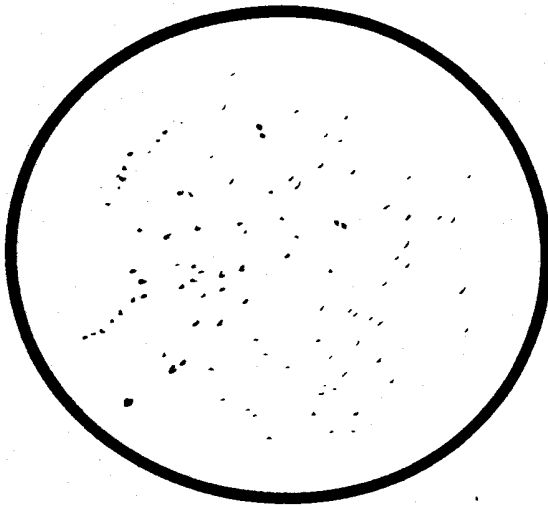
Seeing 9 Transparency 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this cluster be easily distinguished from the background stars?
- What is the overall shape of the object? Clumps & doubles
- How many stars can you count in the cluster? >100
- Are the stars more concentrated in any one particular area? No
- Is this cluster resolved fully or is there some background nebulosity noticed? No
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

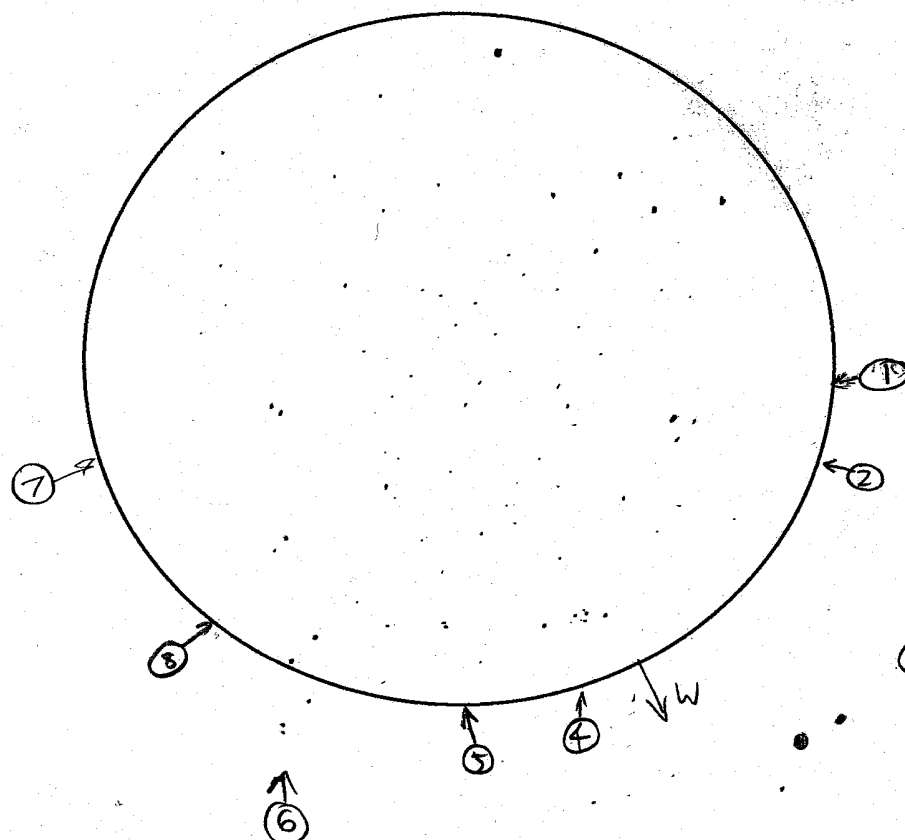
CROWELL
28

DATE 11/10/2 TIME 1:40 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT N6c 752 & its
multiples

LOCATION RMCC HOME



Didn't try
to identify
doubles in
WDS - its
a cluster

① Very noticeably red in major Δ of cluster

② Well shown in photo (see below*)

③ Yellow & rusty orange-red (see 10x50 view 11/9/2)

④ 153X confirms (Also see*)

⑤ 153X confirms

⑥ Neat

⑦ Also seen (w/⑧)

Cluster nice, but large for 73x - try 10x50's.
*Compare to photo p. 152 Burnham & chart p. 151

Observing Log

Object type: Galaxy

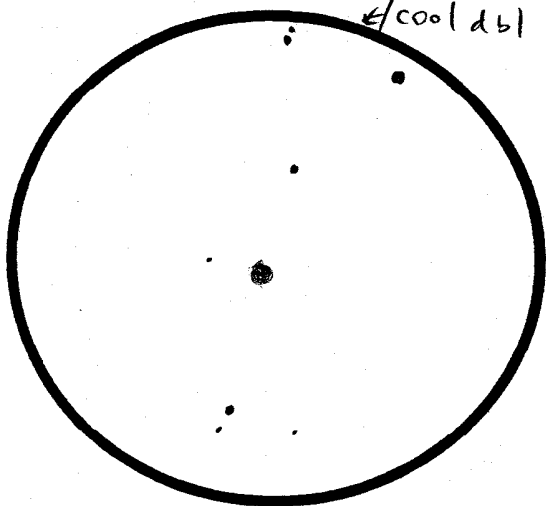
CHAMBERLAIN
29

Object ID: NGC 5005

Const.: CnV

RA: _____ Dec.: _____

Mag: _____ Size: W
cool dbl



Observer BY

Date 3/11/4

Time 10:30 CST

Location RNCC

Seeing 8 Transparency 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47

- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Round
- Is a core noticeable? Yes
- Is the core compact or stellar?
- Can any detail be seen between the core and the outer envelope of the object? Some hints w/av
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? mottle
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

Observing Log

Object type: Galaxy

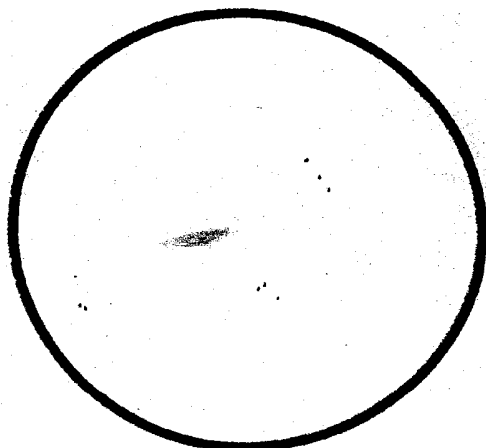
CALDWELL
30

Object ID: N6e 7331

Const.: Peg

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 10/15/3

Time 21:00

Location RMce

Seeing 8 Transparency 5

Instrument ETX

Size 125mm

Eyepiece 40mm

Field of view _____ Power 47x

- Can this galaxy be seen with direct vision, or is averted vision required? INSERT (734)
- What is the overall shape? 4x1 elong
- Is a core noticeable? Yes
- Is the core compact or stellar?
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Note: also used 73x - didn't bring out outer area as well, but brightened core & showed it in two bright areas w/ slight break between them (see insert)

Observing Log

Object type: Nebula

CARLOWELL
31

Object ID: IC 405

Const.: Aw

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BT

Date 11/26/13

Time 10:15 CT

Location RMCE

Seeing 8 Transparency 4

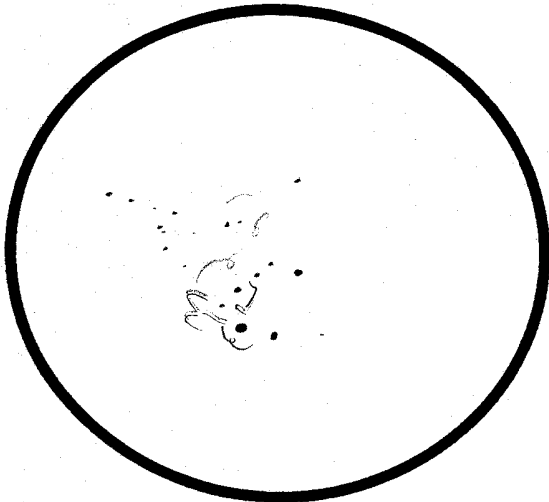
Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47

w & w/o N.B. filter



- Can this nebula be seen with direct vision, or is averted vision required? + patience
- Is there an overall shape of the object or is it simply irregular?
- Is any part of the outer edge of the nebula sharply defined? No
- Is any part of the nebula brighter or more concentrated? Around AE
- Is there any particular area where you notice an absence of stars in this cluster? No cluster
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula? AE
- Any suggestions for observing this nebula (I.e. filter, low power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description I feel confident because "inside" of kite noticeably

darkest than outside (left, or S)

Observing Log

Object type: Galaxy

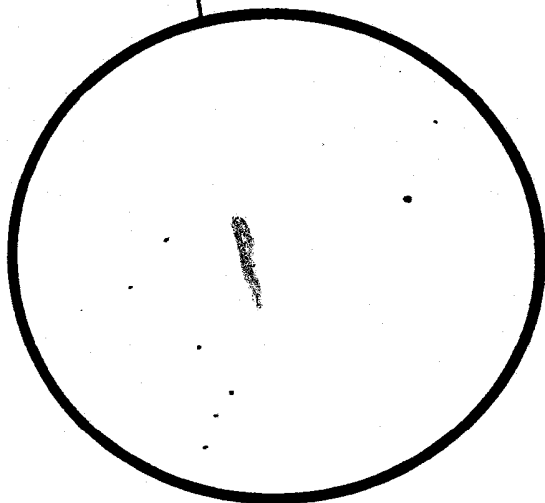
CARDWELL
32

Object ID: NFC 4631/4627(?)

Const.: CnV

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 3/11/4

Time 10:40 CST

Location RMCC

Seeing 8 Transparency 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47

- Can this galaxy be seen with direct vision, or is averted vision required? hmt of 4627
- What is the overall shape? Very elong & straight w/ bump on NW side (4627?)
- Is a core noticeable? No
- Is the core compact or stellar? _____
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse? Partly
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? each other

Description _____

BRAD YOUNG

TULSA, OKLAHOMA

OBSERVATION RECORD

Adrian

32

OBSERVATION:

GENERAL NOTES:

INSTRUMENT: EYE 1050 4.5" POWER: 10X 45X 90X 220X 440X

3/18-14/96 cont

TIME:

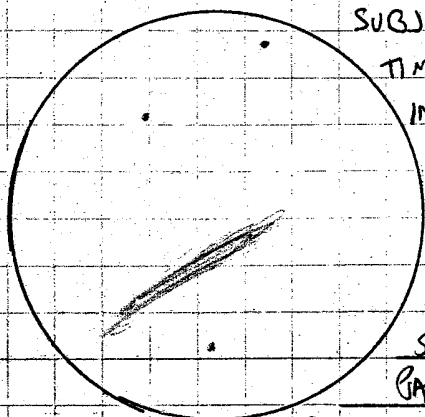
CSF
COT

SEEING:

CLARITY:

DATE:

LOCATION:



SUBJECT: NBC4631

TIME: 2:00 ^{CSF} COT

INSTRUMENT: 4.5"

NOTES: NO OTHER

D.S. FORMS

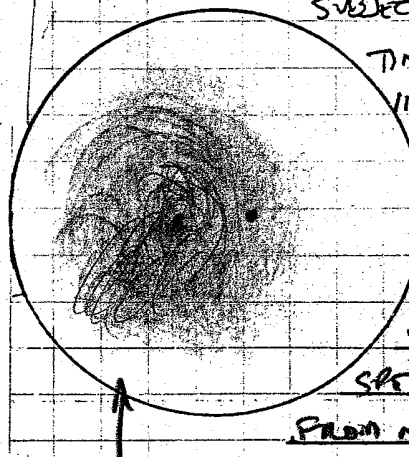
TOO CLOUDY

90X BANDY

SHOWS BRIGHTEST

PART OF GREAT

EDGE-ON!



COMET

SUBJECT: HYPERMUTUE2

TIME: 2:05 ^{CSF} COT

INSTRUMENT: 4.5"

NOTES: 90X

WOW

ASW/MSW3

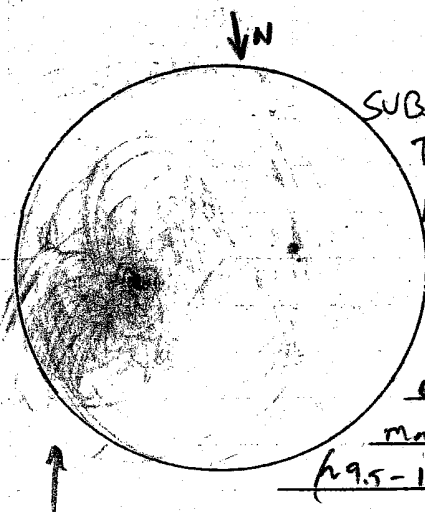
CURIOUS FWH

SHAPED AREA

SEEMING TO NW

FROM NUCLEUS

C32



SUBJECT: COMET #2

TIME: 2:10 ^{CSF} COT

INSTRUMENT: 4.5"

NOTES: 220X

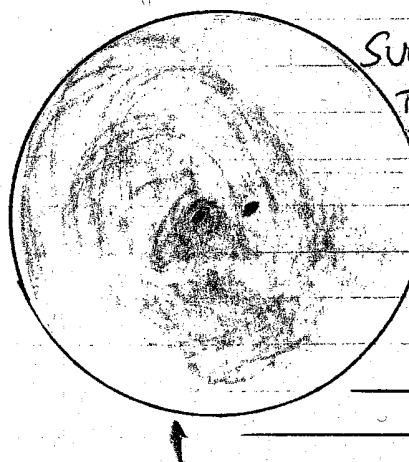
WOW! Also,

9m dbl (plet

on Orano 288)

may be as shown

(9.5-10.5mH, 10", 10-20")



SUBJECT: COMET #2

TIME: 2:15 ^{CSF} COT

INSTRUMENT: 4.5"

NOTES: 45X

WOW

7/3/3

Chowell
(33) + 34

DATE 7/4/3 TIME 3:45 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X
None

OBJECT _____ LOCATION RMCC HOME _____

(3)

① IC 4756 73X

② N6C 6633 73X

③ VETL (N6C 6950) NEAR 52 Cyg 73X W/NF

N6C
④ 6992 PORTION @ 73X W/NF A BIT BRIGHTER - SMALLER

Also saw VICTORIA 73X 6/26 11:00 pm
FLORA 73X 6/27 11:10 am

10. Comets	Must observe one comet	Coordinates for June 20	6/21/03	
	Hint: Possible targets 116P/Wild 4 is in	116P- 15 02.99 -21 20.5	11:00	
	Libra and Linear K4 is in Cygnus.	K4 - 21 03.50 +31 07.5		
	RX14 in Western outskirts of Virgo	RX14 11 33.2 +02 33.4		
	53P in Libra, 07 is in Leo	53P 15 44.87 -09 27.2		
Observation Notes:	Saw VESTA, no comets in range of 125mm w/ these conditions Easily found in central Virgo ~7m. (with 5230 viewfinder)			
11. IZAR Epsilon Bootes	Double star of orange and blue in Bootes	14 44.59 +27 04	6/20/03	
Observation Notes:	Seen split @ 153X barely 435X brings out yellow orange and greenish-blue colors.			
12. M13/NGC 6207	Famous Globular in Hercules and the faint	16 41.7 +36.28	6/20/03	
	nearby galaxy. Must see both		10:55	
Observation Notes:	M13 well seen, resolved @ edges. NGC 6207 small glow to north, in same 73X field			
13 NGC 6210	Blue Green Planetary Nebula in Hercules	16 44.5 +23 48	6/21/03	
Observation Notes:	Brown-greenish disk w/ no detail even at high power			
14. Cr 399	Star cluster shaped like a coat hanger	19 25.4 +20 11	6/27/03	
Observation Notes:	EASY - BEAUTIFUL AS ALWAYS SEEN IN 10X50 BINOC			
15. NGC 6960/6992	Veil Nebula in Cygnus - Must see both	6960- 20 45.7 +30 43	7/4/03	
	sections.	6992- 20 56.4 +31 43	3:45 am	
Observation Notes:	SAW VERY TENUOUS NEAR S2 Cyg (ONCE IT'S PUT OUT OF FIELD) & NGC 6992 NE IN RICH FIELD - ALTHOUGH 73X & NEBULA FILTER			
16. NGC 6826	Blinking Planetary Nebula in Cygnus	19 44.8 +50 31	6/22/03	
Observation Notes:	Easy to find near 16 Cyg & many doubles. Blue-green disk "6 miles" well @ 153X			
17. Satellites	Name of Satellite: Cosmos 807	4th magnitude	6/20/03	
Observation Notes:	Rocket from near Mizar to near α UMi. Easily seen by many others			
18. NGC 4565	Edge on Spiral Galaxy in Coma Bernices	12 36.3 +25 59	6/21/03	
Observation Notes:	Seen, only about 1/2 usual length in better skies			
19. Gamma Delphinus	Golden/White double star in Delphinus-In	20 46.7 +16 07	6/22/03	
	the same view Struve 2725 a dim double,		11:15	
	Must see both doubles.			
Observation Notes:	Both split well @ 73X while seen in same field. γ is yellow and white, ε 2725 whites.			

Asteroid
Vesta

✓
(Vesta)
7

C33

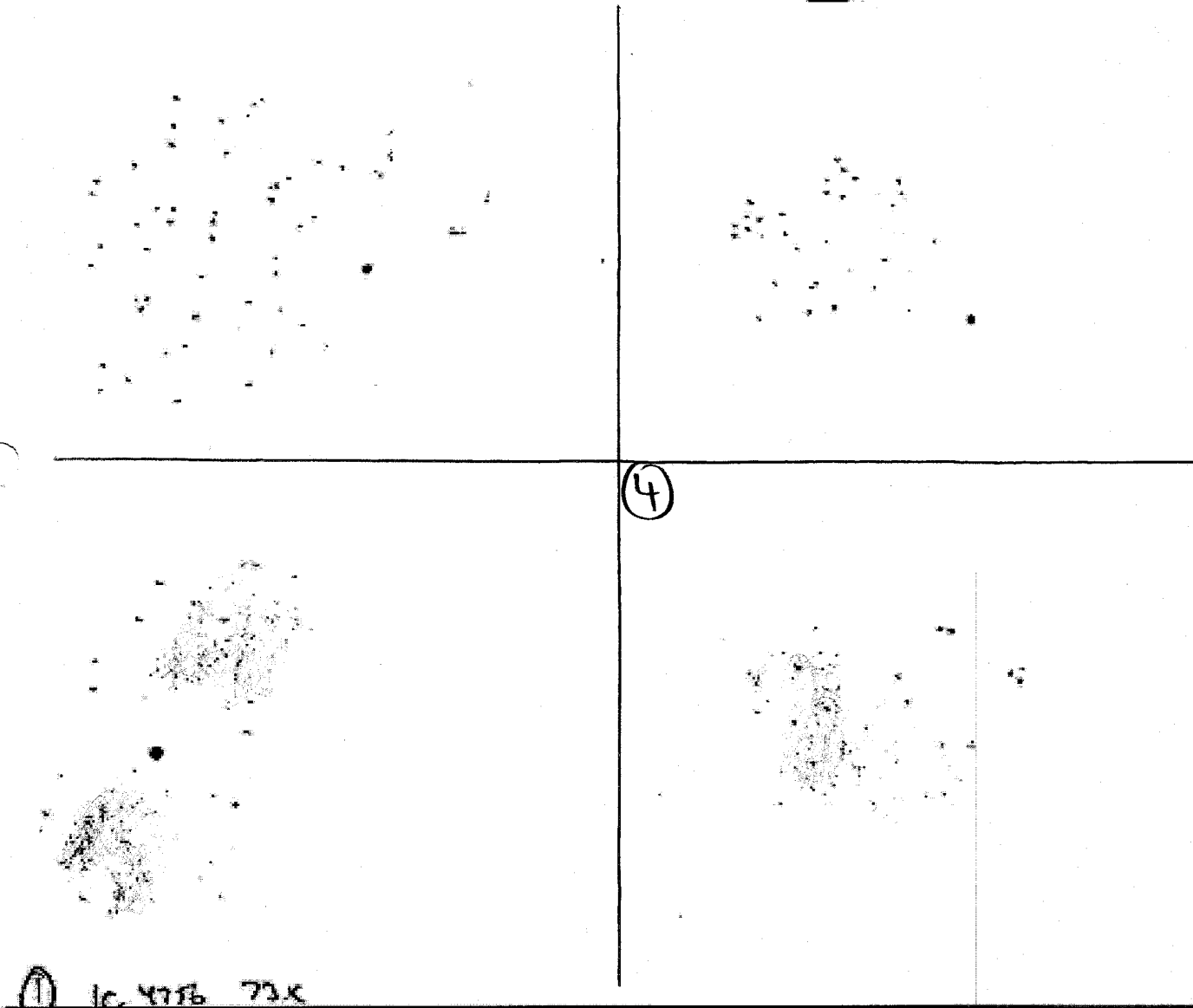
7/3/3

Chowen
33 + (34)

DATE 7/4/3 TIME 3:45 ~~EST~~ ~~CD~~ CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X
None

OBJECT _____ LOCATION RMCC HOME _____



- ① IC 4756 73X
- ② NGC 6633 73X
- ③ NGC 6180 NEAR 52 Cy 73X w/NF
- ④ NGC 6992 prominent @ 73X w/NF A bit brighter - smaller

Also saw VICTORIA 73x 6/26 11:00 pm
FLORA 73x 6/27 1:10 am

10. Comets	Must observe one comet Hint: Possible targets 116P/Wild 4 is in Libra and Linear K4 is in Cygnus. RX14 in Western outskirts of Virgo 53P in Libra, 07 is in Leo	Coordinates for June 20 116P- 15 02.99 -21 20.5 K4 - 21 03.50 +31 07.5 RX14 11 33.2 +02 33.4 53P 15 44.87 -09 27.2	6/21/03 11:00
Observation Notes:	Saw VESTA, no comets in range of 125mm w/ these conditions Barely found in central Virgo ~7m. (with 5X30 viewfinder)		
11. IZAR Epsilon Bootes	Double star of orange and blue in Bootes	14 44.59 +27 04	6/20/03 9:45
Observation Notes:	Seen split @ 153x barely 475x brings out yellow orange and greenish-blue colors.		
12. M13/NGC 6207	Famous Globular in Hercules and the faint nearby galaxy. Must see both	16 41.7 +36.28	6/24/03 10:55
Observation Notes:	M13 well seen, resolved @ edges. NGC 6207 small glow to north, in same 73x field		
13 NGC 6210	Blue Green Planetary Nebula in Hercules	16 44.5 +23 48	6/21/03 11:25
Observation Notes:	Bright greenish disk w/ no detail even at high power		
14. Cr 399	Star cluster shaped like a coat hanger	19 25.4 +20 11	6/27/03 10:10
Observation Notes:	EASY - BEAUTIFUL AS ALWAYS SEEN IN 10X50 BINOC		
15. NGC 6960/6992	Veil Nebula in Cygnus - Must see both sections.	6960- 20 45.7 +30 43 6992- 20 56.4 +31 43	7/4/03 3:45 am
Observation Notes:	SAW VERY TENUOUS NEBULA S2 Cyg (ONCE IT'S PT OUT OF FIELD) & NGC 6992 NE IN RICH FIELD - ALL WITH 73X & NEBULA FILTER		
16. NGC 6826	Blinking Planetary Nebula in Cygnus	19 44.8 +50 31	6/22/03 1:25
Observation Notes:	Easy to find near 16 Cyg & many doubles. Blue-green disk "6 miles" well @ 153x		
17. Satellites	Name of Satellite: Cosmos 807	4th magnitude	6/20/03 9:58 pm
Observation Notes:	Rocket from near Mizar to near alpha UMi Easily seen by many others		
18. NGC 4565	Edge on Spiral Galaxy in Coma Bernices	12 36.3 +25 59	6/21/03 10:45
Observation Notes:	Seen only about 1/2 usual length in better skies		
19. Gamma Delphinus	Golden/White double star in Delphinus-In the same view Struve 2725 a dim double, Must see both doubles.	20 46.7 +16 07	6/22/03 1:15
Observation Notes:	Both split well @ 73x white seen in same field. Gamma yellow and white, epsilon whiter.		

Assess
Vesta

✓
(Vesta?)
7

✓

✓

✓

✓

✓

C34

Observing Log

Object type: Galaxy

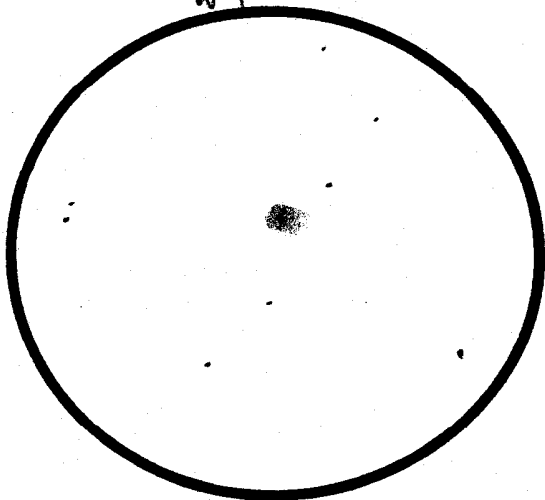
CARDWELL
36

Object ID: Nbe 4559

Const.: Com

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 3/11/4

Time 10:50 CST

Location RMCC

Seeing 8 Transparency 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47

- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Round - as makes it "grow" a bit to oval
- Is a core noticeable? Star - not core
- Is the core compact or stellar? ↑
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Certain I saw it as shown - don't understand why it is listed as "extremely elongated" in H400 book

Observing Log
Object type: Open Cluster

CALDWELL
37

Object ID: NbC 6882/6885

Const.: V61

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 11/12/3

Time 6:40

Location RMCC

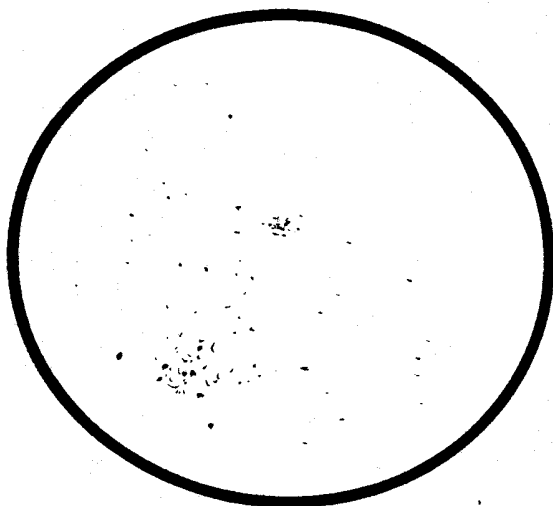
Seeing 8 Transparency 6

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this cluster be easily distinguished from the background stars? Yes
- What is the overall shape of the object? Clumps
- How many stars can you count in the cluster? 50 + 35
- Are the stars more concentrated in any one particular area? See dub
- Is this cluster resolved fully or is there some background nebulosity noticed? Both mostly w/ unres. faints
- Is there any particular area where you notice an absence of stars in this cluster? Gap between them
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? Some blues
- Are there any other deep-sky objects in the same field of view? If so, what? Each other

Description Ran into again on way to Comet Encke

Observing Log
Object type: Open Cluster

Crowell
37

Object ID: Nfc 6882/6865

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BSY

Date 8/24/03

Time 11:35:05

Location LMCC

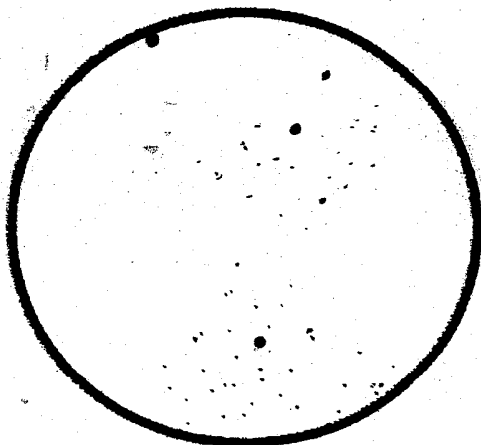
Seeing 6 Transparency 3

Instrument ETX

Size 125mm

Eyepiece _____

Field of view _____ Power 73X



- Can this cluster be easily distinguished from the background stars? Yes
- What is the overall shape of the object? "Bees" round brights
- How many stars can you count in the cluster? 158 40
- Are the stars more concentrated in any one particular area? Not too knotty
- Is this cluster resolved fully or is there some background nebulosity noticed?
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? 19 & 20 V
- Are there any other deep-sky objects in the same field of view? If so, what? These two
19 is golden
20 is bluish-white

Description _____

CALDWELL
38

DATE 6/27/3 TIME 10.26 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT Nge 4565 LOCATION RMCC HOME



Much better, traced out to $\frac{1}{3}$ - $\frac{1}{2}$ apparent field

(153x) - mel. power helps darker & contrast.

BRAD YOUNG

TULSA, OKLAHOMA

OBSERVATION RECORD

CHAMBERLAIN
39

OBSERVATION:

From GMA's

GENERAL NOTES:

INSTRUMENT: EYE 10X50

4.5"

POWER: 10X

45X

10X

220X

440X

SEEING: II

CLARITY: II

DATE: 2:00 - 6:45

LOCATION: GMA'S

"Remembering Gemini" (selected objects)

SUBJECT: NGC 2266

TIME: 2:10 COT

INSTRUMENT: 4.5"

NOTES: 45X seen

but seeing

getting poor

this low, just

glad at ~10m.

SUBJECT: NGC 2420

TIME: 2:15 COT

INSTRUMENT: 4.5"

NOTES: 220X to

get dbl. Used

low power

to see cluster

as

Poor,

brightly, not

a spectacle

NGC 2266

C 39

SUBJECT: 8m dbl 12/18/84

TIME: 2:30 COT

INSTRUMENT: 4.5"

NOTES: 220X

~8.5+9, ~240°

~5" ? NOT

sure.

SUBJECT: NGC 2392

TIME: 3:00 COT

INSTRUMENT: 4.5"

NOTES: 220X

BELIEVE I

GIMPSED

"EYES" AS US

BRIGHT THAN NGC 2392

BUT NO LUCK ON MOUNTAIN

Could I have seen c.s. ? seemed

like a stellar area to me, in middle

LOCATION: 145

DATE: 2/1-2 cont. TIMES:

DESCRIPTION:

CARDWELL
39

C: I II III IV V

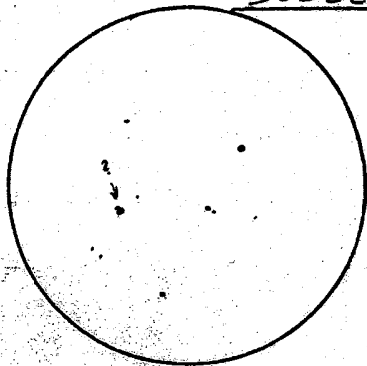
S: I II III IV V

I: EYE 10X50 4.5 OTHER

P: 0X 10X 45X 90X 220X

SUBJECT: DBL'S ~ 1° SW of XAW

45X NO I.D.

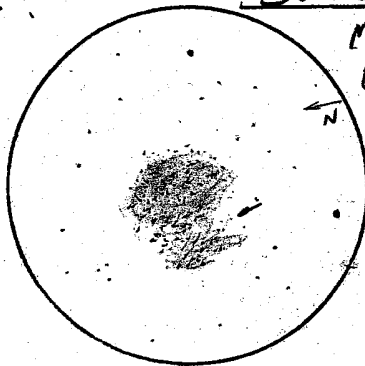


SUBJECT:

M37 45X

EXQUISITE

← N
HAD SEEN ON SE SIDE
BLANK TO 40° ON NE.

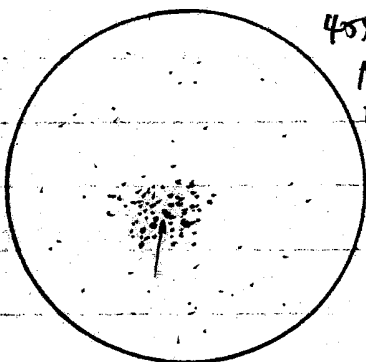


SUBJECT: M36

45X MOST EX!

MINIMUM =

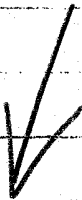
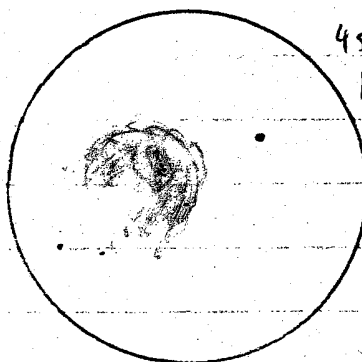
APR 4194 9.1 + 9.4 11", 365°



SUBJECT: M42

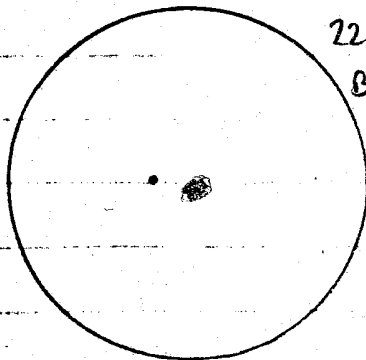
45X for grains (low)

1:15am



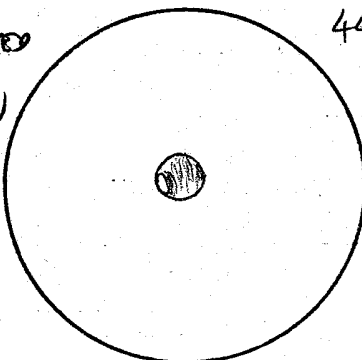
SUBJECT: NBC 2392

220X MOST EX, RESOLVED
BOTH EYES, MATHIE
MOUTH. BLUE-GREEN
STANDS OUT, 10.5 m.c.s.



SUBJECT: ♂

440X! 3:05am



Observing Log
Object type: Galaxy

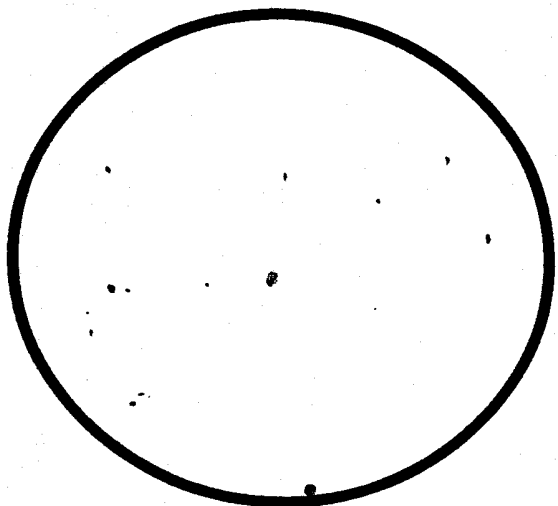
CALDWELL
40

Object ID: N6C 3626

Const.: Leo

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 3/11/4

Time 9:47 CST

Location RMCE

Seeing 8 Transparency 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47

Also tried 73x

- Can this galaxy be seen with direct vision, or is ^{but} averted vision required? helps
- What is the overall shape? Oval
- Is a core noticeable? Yes
- Is the core compact or stellar?
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description 73x Not drawn brings out some along but can't
push more (faint)

Observing Log
Object type: Open Cluster

CARDWELL
41

Object ID: Hyades

Const.: Tau

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 11/15/3

Time 9:30 pm CST

Location Home

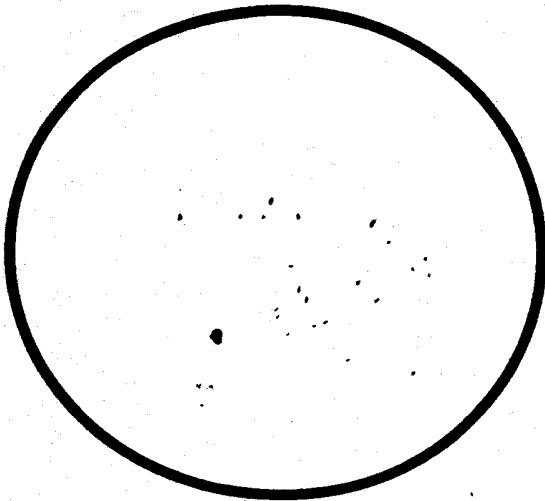
Seeing II Transparency IV

Instrument 10X50 binocs

Size 50mm

Eyepiece —

Field of view 7° Power 10X



- Can this cluster be easily distinguished from the background stars? Yes
- What is the overall shape of the object? ✓
- How many stars can you count in the cluster? 26
- Are the stars more concentrated in any one particular area? several wide pairs
- Is this cluster resolved fully or is there some background nebulosity noticed?
- Is there any particular area where you notice an absence of stars in this cluster? inside ✓
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? Yes,
α Tau = orange
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

LOCATION: VERDIGRIS (Caldwell 42)

DATE: 6/28/95 TIMES:

DESCRIPTION:

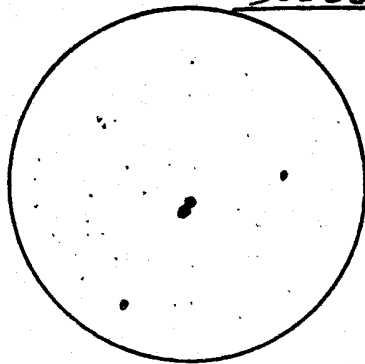
CSF
CAP

C: = II II II II
S: = II II II II

I: EYE 10X50 4"5 OTHER

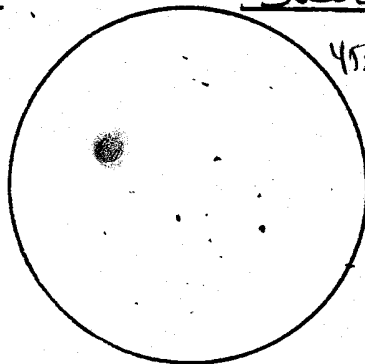
P: 0X 10X 45X 90X 220X 440X

SUBJECT: 80el+



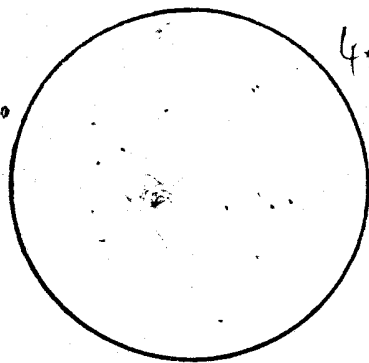
220x

SUBJECT: NBC 700b



45x - Not too hard, no hope for resolution

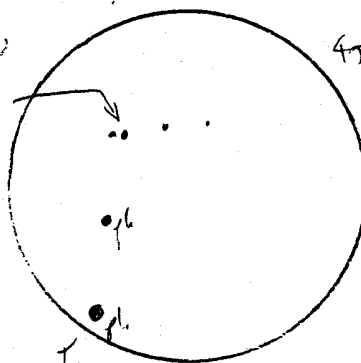
SUBJECT: 60el



45x much easier to see

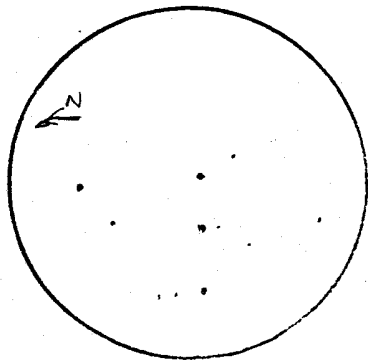
pl. pl.

SUBJECT: TH06e

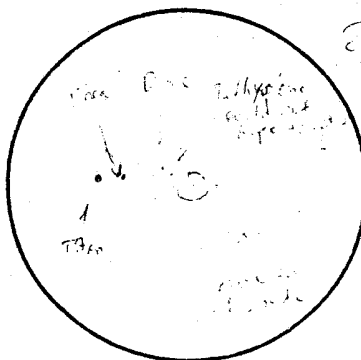


45x

SUBJECT: ?



SUBJECT: A



220x 5/15/95

Observing Log

Object type: Galaxy

CHOWELL
43

Object ID: NGC 7814

Const.: Peg

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 11/19/3

Time 7:55 pm CST

Location LMCC

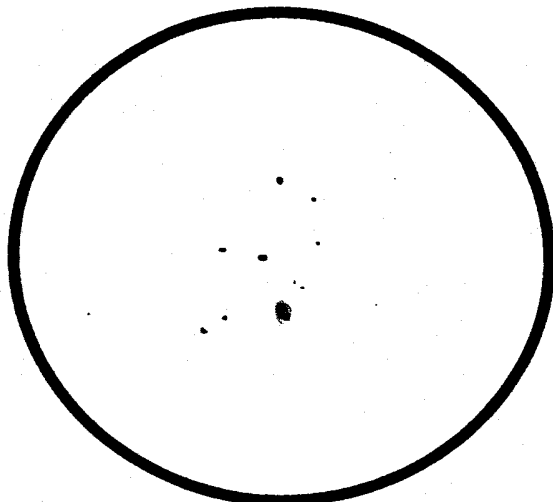
Seeing 8+ Transparency 4+

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? sl. elongated
- Is a core noticeable? No
- Is the core compact or stellar? N/A
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description NOTE: 73x brought out stellar nucleus, which seems a little off-center, and a small amount of mottling, a few more faints nearby.

Observing Log Object type: Galaxy

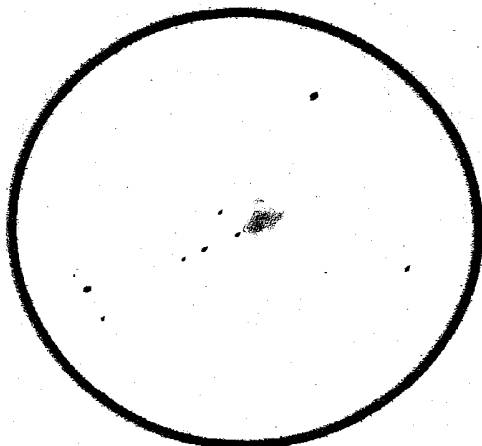
CARDWELL
44

Object ID: Ngc 7479

Const.: Per

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 10/15/3

Time 21:25

Location RMCC

Seeing 8 Transparency 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47

- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? elong a bit oval
- Is a core noticeable? No
- Is the core compact or stellar? N/x
- Can any detail be seen between the core and the outer envelope of the object? Not much, sort of
- Are the edges of the outer envelope sharp or not diffuse? lopsided
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? A hint of
- Are there any other deep-sky objects in the same field of view? If so, what? No SW elong

Description see 73e (next)

Observing Log

Object type: Galaxy

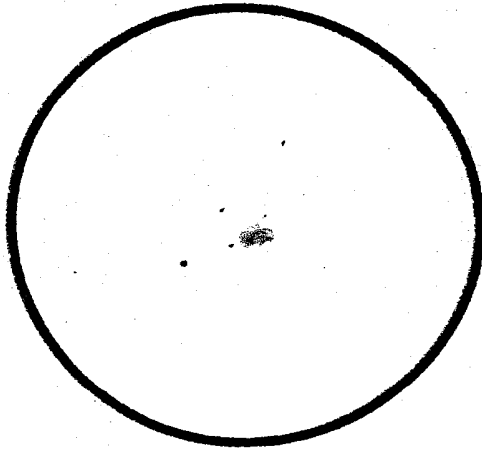
CARDWELL
44

Object ID: NHC 7479

Const.: Peg

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 10/15/13

Time 21:30

Location RMCC

Seeing 8- Transparency 5-

Instrument ETX-125

Size 125

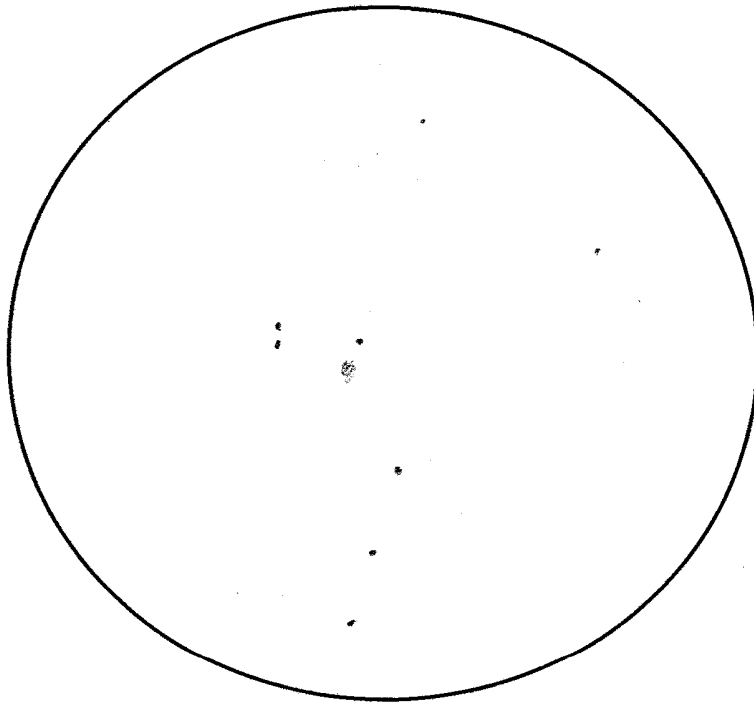
Eyepiece 25

Field of view _____ Power 73X

- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? oval w/elong to SW
- Is a core noticeable? No
- Is the core compact or stellar? N/A
- Can any detail be seen between the core and the outer envelope of the object? yes-see long
- Are the edges of the outer envelope sharp or mod. diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? see long
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Much more detailed - shows "bumpy" elong

(1999 Cole & Pratt)



"Hubble's Variable Nebula" seen clearly -

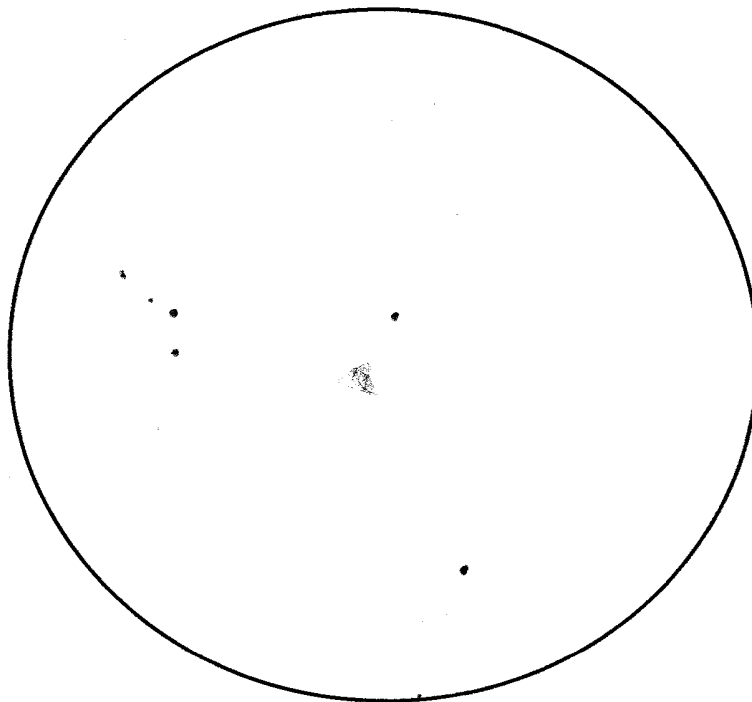
see next page

Caldwell 46

DATE 3/29/3 TIME _____ CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT NBC 2261 LOCATION RMCC HOME _____



w & w/o filter - no filter + m.p. best view
"little twister" - great & quite easy

BRAD YOUNG

TULSA, OKLAHOMA

OBSERVATION RECORD

CROWELL
46

OBSERVATION: Moon "Depth of Moon"
GENERAL NOTES: Big Night! TIME: 3100-3125 ^{CST} _{COT} SEEING: IF CLARITY: IF
INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X DATE: 12/2/95
LOCATION: MAAN

↓ N

SUBJECT: ε 954 + NGC 2264
TIME: 3100 ^{CST} _{COT}
INSTRUMENT: 4.5"
NOTES: 45X
Custom cool,
DBL EXST.

↓ N

SUBJECT: ε 953
TIME: 3105 ^{CST} _{COT}
INSTRUMENT: 4.5"
NOTES: 45X
p.026, not too
hard at 45X

↓

SUBJECT: NGC 2261
TIME: 3120 ^{CST} _{COT}
INSTRUMENT: 4.5"
NOTES: 45X
• 220X was too
much, still
4.5" at 90X
moving 90X,
nice @ 45X, even
"cometary" glow w/
11m to NW

SUBJECT: _____
TIME: _____ ^{CST} _{COT}
INSTRUMENT: _____
NOTES: _____

CARWELL
47

Object Name: NGC 6934
Constellation: Orl
R.A./Dec: _____

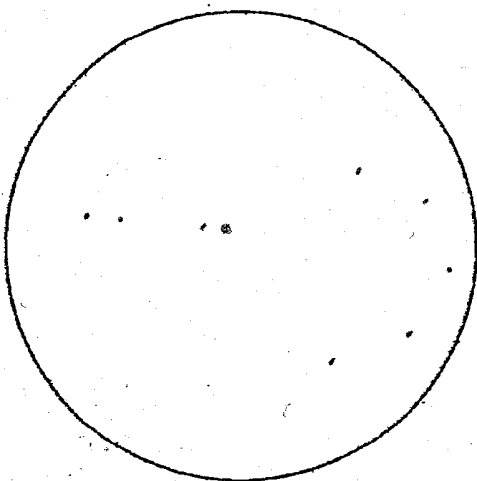
OBSERVATION LOG

Name: B7
Date: 7/15/13
Time: 9:35 PM
Site: Home

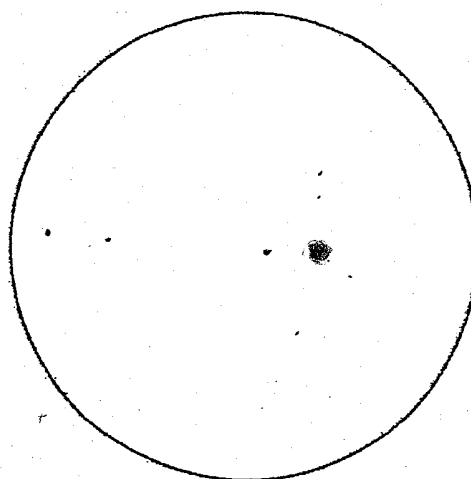
Instrument: ETX-125EZ
Power: 47x, 153x
Seeing (1-10): 6
Transparency (1-5): 3

FIELD DRAWING

Low Power 47x



High Power 153x



DESCRIPTION

EASILY FOUND IN L.P.

153x SHOWS GLOBULAR GLOW WELL, NO HOPE RES,
SOME FAINT MOTTLING ON EDGE.

Observing Log

Object type: Galaxy

CAR DWELL
48

Object ID: N6C 2775

Const.: Cnc

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 3/11/4

Time 8:20 pm CST

Location RMCE

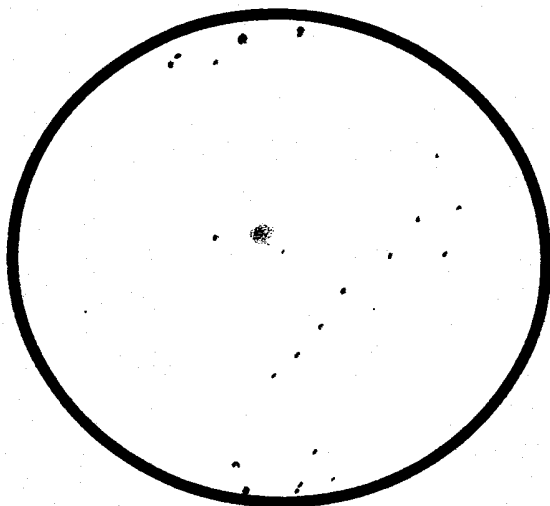
Seeing 7 Transparency 4

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Oval
- Is a core noticeable? No
- Is the core compact or stellar? —
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or met diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Not much detail

Observing Log

Object type: Galaxy

CHAPWELL
48

Object ID: Nbc 2775

Const.: Cnc

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 3/11/4

Time 8:40 CST

Location RMCC

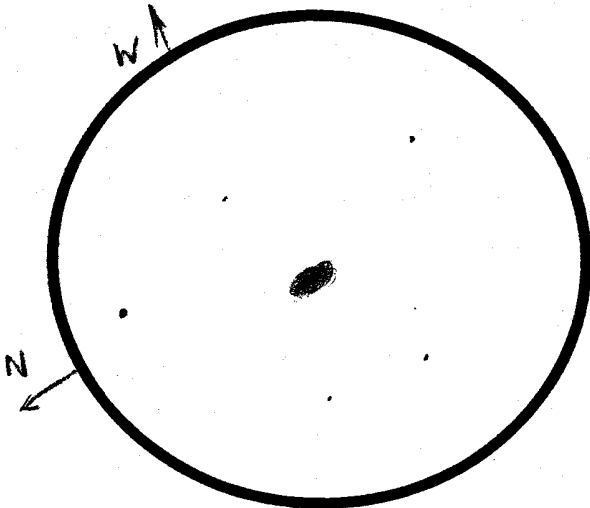
Seeing 2 Transparency 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ Power 153x



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? sl. more elong @ 153x as shown
- Is a core noticeable? No
- Is the core compact or stellar? —
- Can any detail be seen between the core and the outer envelope of the object? Mottle
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? Some
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

Observing Log

Object type: Cluster/Nebula

Roxette

Carroll
49

Object ID: NGC 2244 / 2237

Const.: Mon

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 1/23/4

Time 8:40 pm

Location NMCC

Seeing 6 Transparency 5

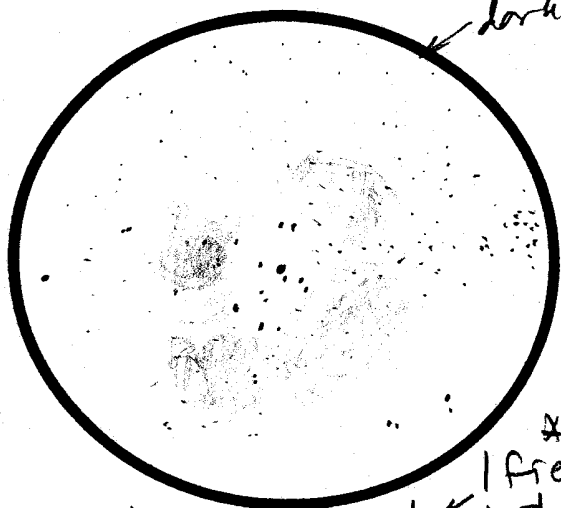
Instrument ETX 125

Size 125

Eyepiece 40

Field of view X Power 47

w/ neb filter (wide band)



• Can both the cluster and nebula be seen with direct vision or is averted vision required?

• Is there an overall shape of the object or is it simply irregular? Cluster - nothing strange

• Is any part of the outer edge of the nebula sharply defined?

• Are the stars more concentrated in any one particular area? How many stars are in the cluster?

• Is the cluster embedded in the nebulosity or is there a distinct separation?

• Is any part of the nebula brighter or more concentrated? southern part - maybe

• Is there any particular area where you notice an absence of stars in this cluster? Outside of cluster

• Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?

• Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)?

• Are there any other deep-sky objects in the same field of view? If so, what? End other

Description Draw this day w/o neb filter - added it

and all details shown jump out -

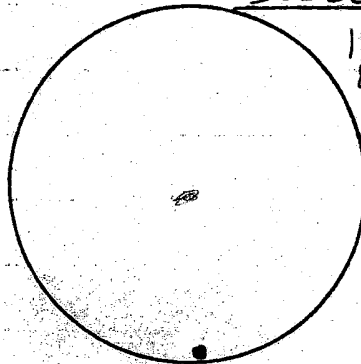
cluster suffused in glow!

LOCATION: MC

DATE: 2/3/96 TIMES: 11:00-6:45am

DESCRIPTION: LOVELY COLD WTE

SUBJECT: NGC 1554-5



11:00pm 220X RENT/W/ano.
& most of Tar out
of view helps glimpse
DON'T NEED AN8!
"HIND'S VARIABLE
NEBULA" SEE ASTRONOMY
FEB 95, P. 65.

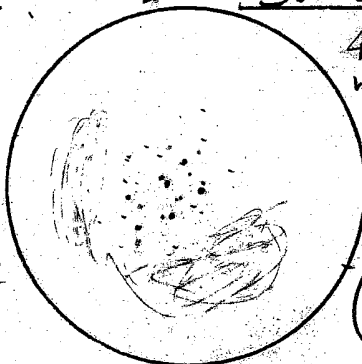
C: I II III IV V

S: I II III IV V

I: EYE 10X50 4"5 OTHER

P: 0X 10X 45X 90X 220X

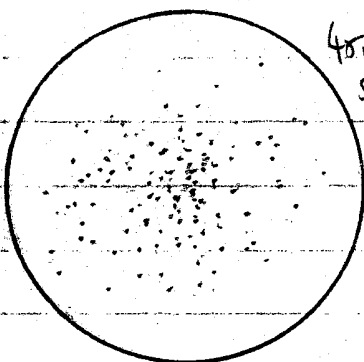
W N SUBJECT: NGC 2244 + 2237(?)



40X Faint
WISPS OF NEB on
N & S SIDES
W/AN
"ROSETTE"

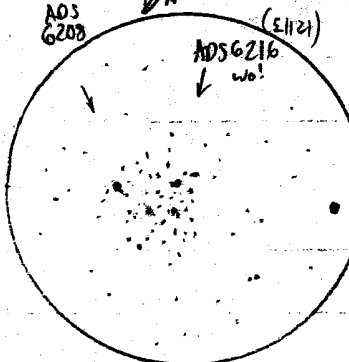
CARDWELL
49

SUBJECT: M48



40X Lovely field
stars, brighter &
denser towards
center.

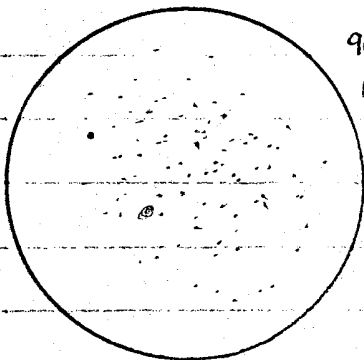
(E1120)
ADS
6208



SUBJECT: M47

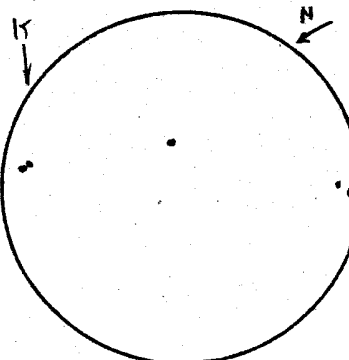
(E1121) 45X VERY BRIGHT
W/OS W/SEVERAL
DBS. ADS 6208 -
5.7 + 9.7, 20°, 41°
ADS 6216 = 7.0 + 7.3
7.4, 305°
← PROG. 0.1.0.

SUBJECT: M46 & NGC 2438



90X + cluster
IN EASY, W/AN of 11m
13m e.s. glimpsed
w/ direct vision

SUBJECT: 15, D Gen



N
V is heavy, wide,
320°, blue-white
blue. 15 closer
reiter, orange
& slightly greenish
blue. 200°

Observing Log

Object type: Cluster/Nebula

Rosette

Chandra

50

Object ID: NGC 2244 / 2237

Const.: Mon

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 1/23/4

Time 8:40 pm

Location NMCC

Seeing 6 Transparency 5

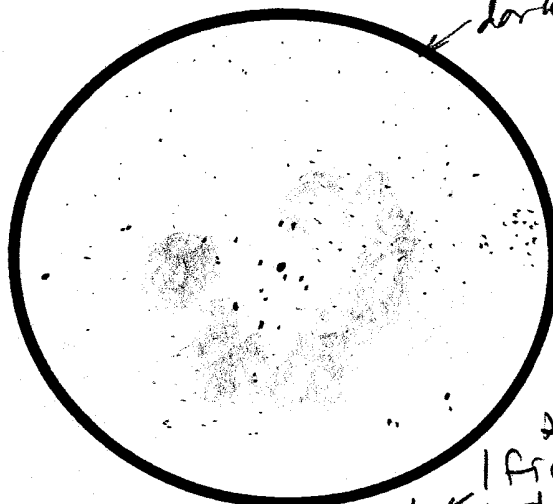
Instrument ETX 125

Size 125

Eyepiece 40

Field of view X Power 47

w/ neb filter (wide band)



• Can both the cluster and nebula be seen with direct vision or is averted vision required?

• Is there an overall shape of the object or is it simply irregular? Cluster - nothing strange

• Is any part of the outer edge of the nebula sharply defined?

• Are the stars more concentrated in any one particular area? How many stars are in the cluster? add up to almost

• Is the cluster embedded in the nebulosity or is there a distinct separation? across

• Is any part of the nebula brighter or more concentrated? southern part - maybe

• Is there any particular area where you notice an absence of stars in this cluster? and western small patch

• Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? Outside of cluster

• Any suggestions for observing this nebula (L.e. filter, power, field of view, etc.)? to NW is dark area - very few stars

• Are there any other deep-sky objects in the same field of view? If so, what? "Flower petal" effect - but dark area makes it

Description Draw this day w/ no neb filter - added it

and all details shown jump out -

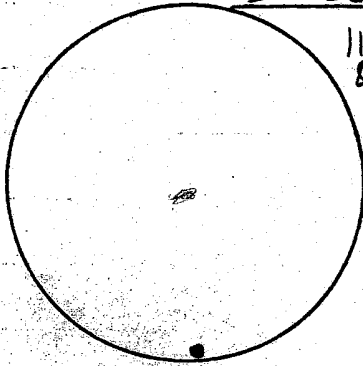
cluster suffused in glow!

LOCATION: MC

DATE: 2/3/95 TIMES: 11:00-6:45am

DESCRIPTION: LOVELY COLD MTE

SUBJECT: NGC 1554-5



11:00pm 220X RENT/W/ano.
& most of Tar out
of view helps glimpse
DON'T NEED AN8!
"HIND'S VARIABLE
NEBULA" SEE ASTRONOMY
FEB 95, P. 65.

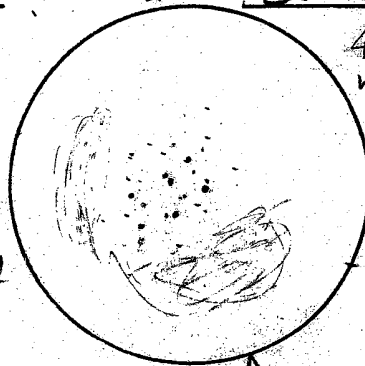
C: I II III IV V

S: I II III IV V

I: EYE 10X50 4.5 OTHER

P: 0X 10X 45X 90X 220X

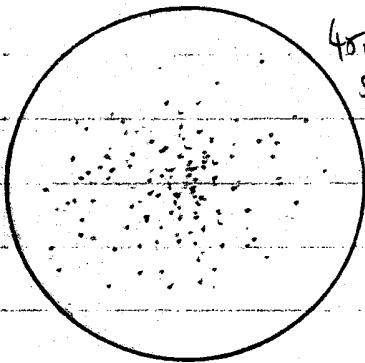
KN SUBJECT: NGC 2244 + 2237(?)



40X ERYNT
WISPS OF NEB on
N/E SIDE
W/REN
"ROSETTE"

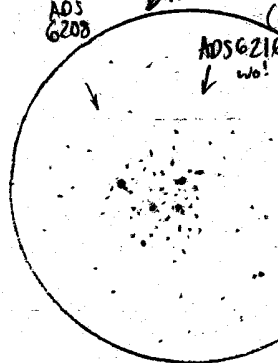
CHANNEL
50

SUBJECT: M48



40X LOVELY FIELD
STARS, brighter &
denser towards
center.

(E1120)
ADS
6208

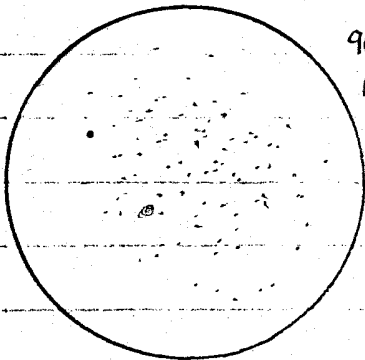


SUBJECT: M47

(E1121)

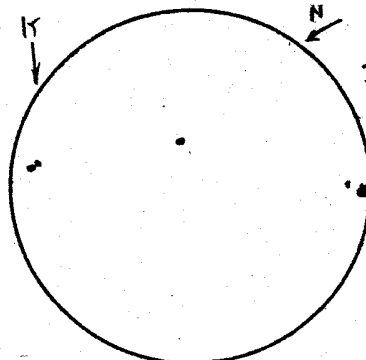
45X VERY BRIGHT
KNOW W/SEVENTH
P&S. ADS 6208 -
5.7 + 9.7, 20", 41"
ADS 6216 = 7.0 + 7.3
7".4, 30.5"
← PROO, NO I.O.

SUBJECT: M46 & NGC 2438



90X + cluster
IN EASY, W/STND of 11m,
13m e.s. glimpsed
w/direct vision

SUBJECT: 15, D Gem



15 is best, wide,
320°, Blue-white
blue. 15 closer
reiter, orange
& slightly greenish
blue. 200°

Observing Log

Object type: Galaxy

C51

Object ID: 1C1613

Const.: Cet

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 11/19/3

Time 8:20pm CST

Location RMCE

Seeing 9 Transparency 4+

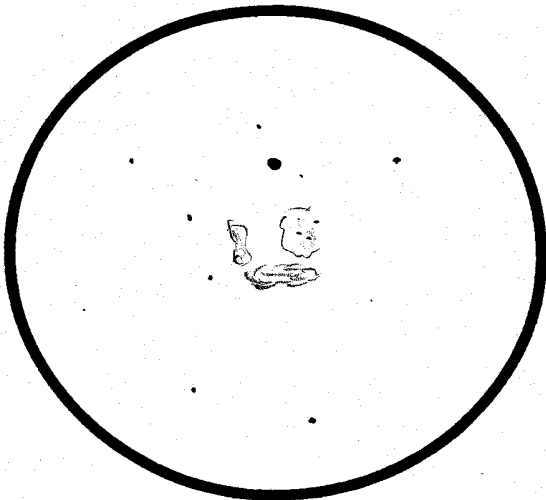
Instrument ETX125

Size 125

Eyepiece 40

Field of view _____ Power 47X

w& w/o narrowband filter



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Ghostly glow
- Is a core noticeable? No
- Is the core compact or stellar? N/A
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse tenuous?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Absolutely faint - hints of reb. as shown

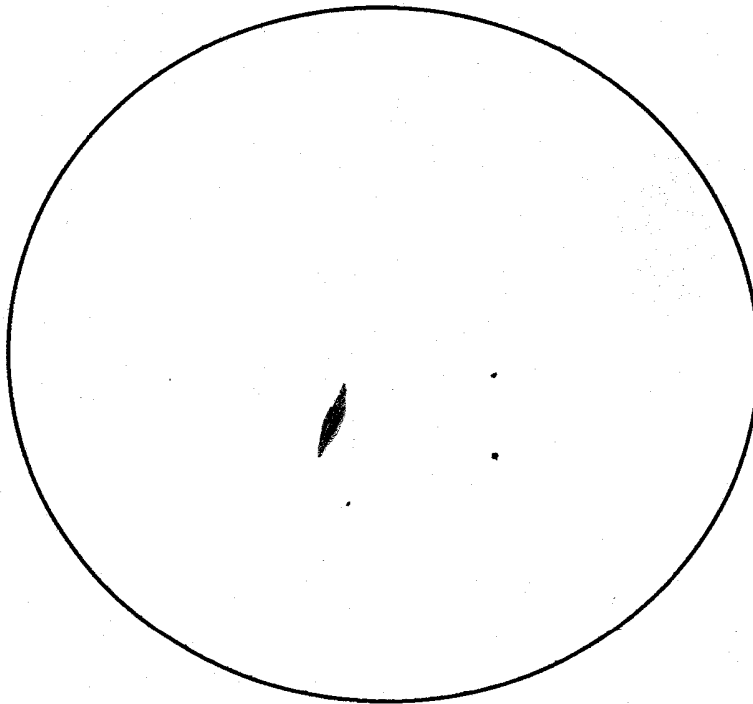
Very large, uneven ghostly glow. Filter helps define
it just enough to be sure I glimpsed it with RCAR.

CARDWELL 53

DATE 4/26/3 TIME 9:50 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 453X 475X

OBJECT NGC 3115 LOCATION RMCG HOME _____



NEARLY VERY EVEN - COMPARE TO M104 LATER

GREAT SIGHT IN BORING FIELD

Observing Log

Object type: Open Cluster

CARDWELL

54

Object ID: N6C 2506

Const.: Mon

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 3/11/4

Time 9:30 CST

Location RMCC

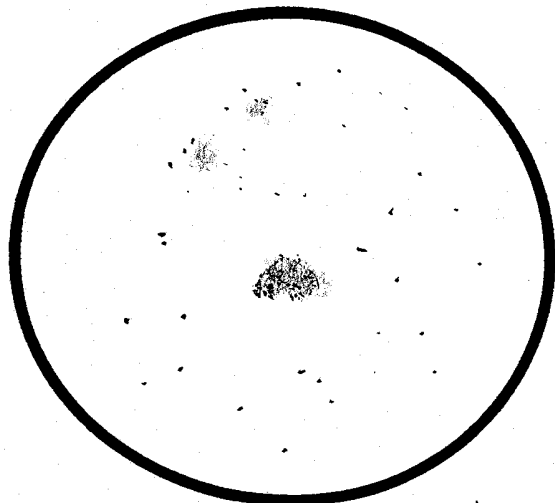
Seeing 8 Transparency 5

Instrument ETX 125

Size 125

Eyepiece 25

Field of view _____ Power 73



- Can this cluster be easily distinguished from the background stars? Fairly well
- What is the overall shape of the object? Horseshoe
- How many stars can you count in the cluster? 10-15 + significant glow
- Are the stars more concentrated in any one particular area? 2 or 3 clumps
- Is this cluster resolved fully or is there ~~some~~ ^{lots} background nebulosity noticed?
- Is there any particular area where you notice an absence of stars in this cluster? Under $\cap$
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Small - 47x view a bit cramped but brighter

CARDWELL

SS

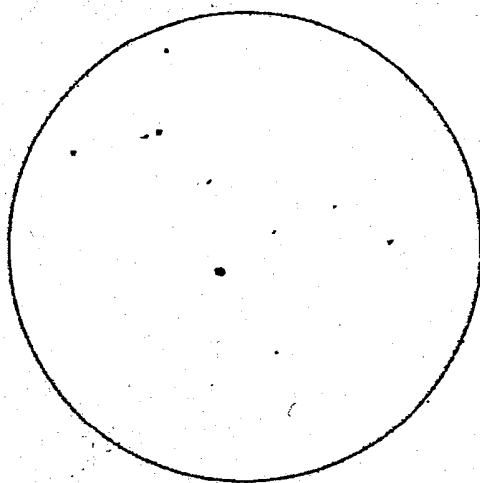
Object Name: NLC 7009
Constellation: AQR
R.A./Dec: _____

OBSERVATION LOG

Name: B4
Date: 9/15/13
Time: 9:50 COT
Site: Home

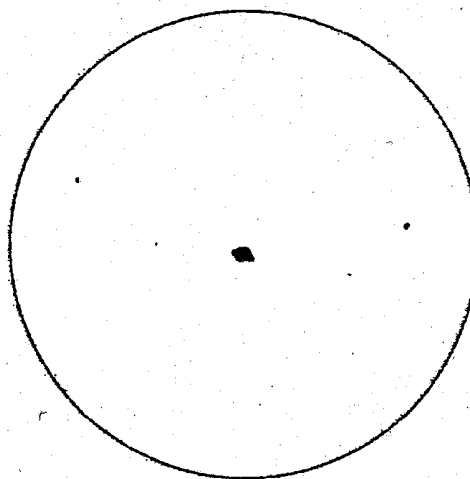
Instrument: ETX-12582
Power: 47x, 153x
Seeing (1-10): 6
Transparency (1-5): 3

Low Power 47x



FIELD DRAWING

High Power 153x (AO NF)



DESCRIPTION

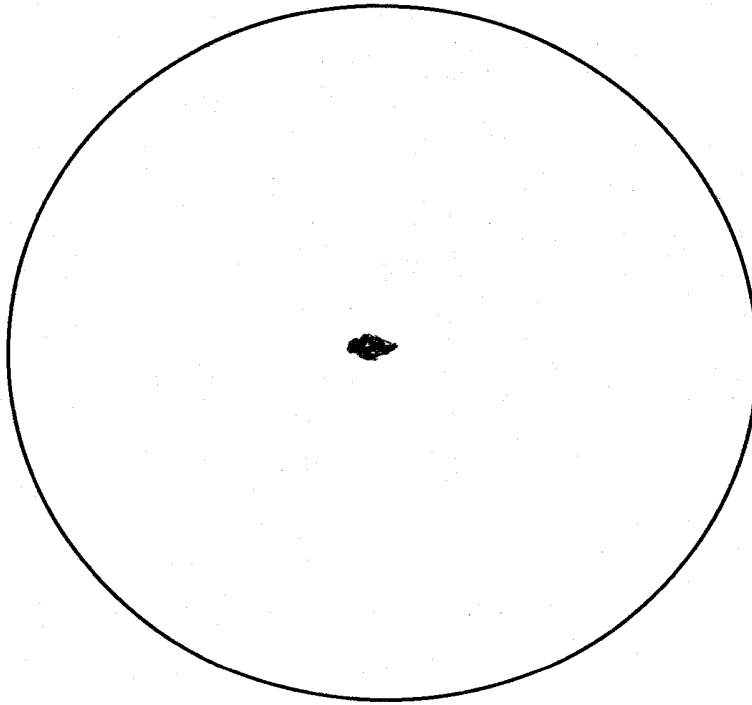
About the same view as dark site - didn't
push 475x or neb. filter due to seeing
Nice oblong pin. w / "ears" or rings - neat

CARDWELL 55

DATE 7/23/3 TIME 1:40 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT N6c 7009 LOCATION RMCC HOME _____



W/AF Whoa! Unbelievable detail

with "ears" & some mottling

Blue-green too

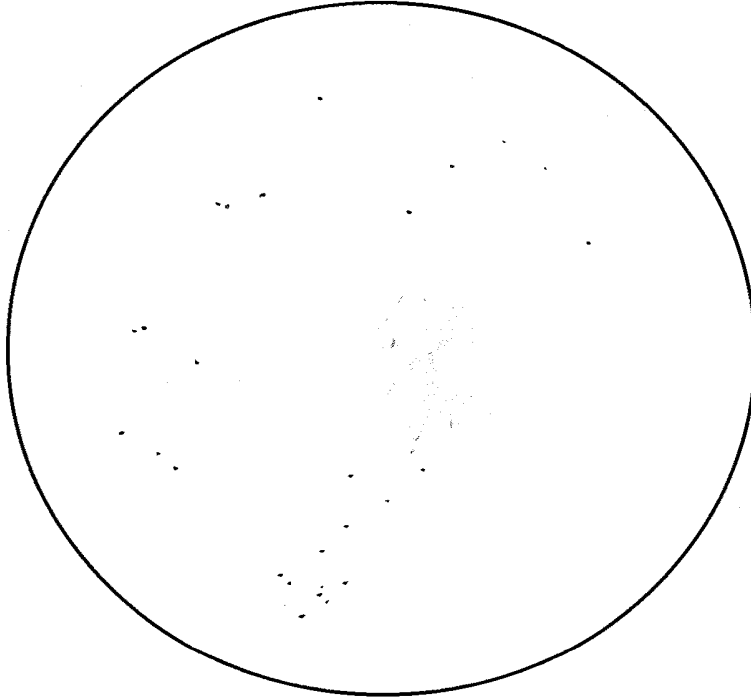
Caldwell 57

"After Tea"

DATE 7/23/3 TIME 210 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT N6C 6822 LOCATION RMCC HOME _____



Very faint - no definition to glow but glimpsed
for sure.

Observing Log

Object type: Cluster/Nebula

CHOWELL
58

Object ID: NBC 2360

Const.: Orion

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 3/11/4

Time 9:10 PM

Location RMCC

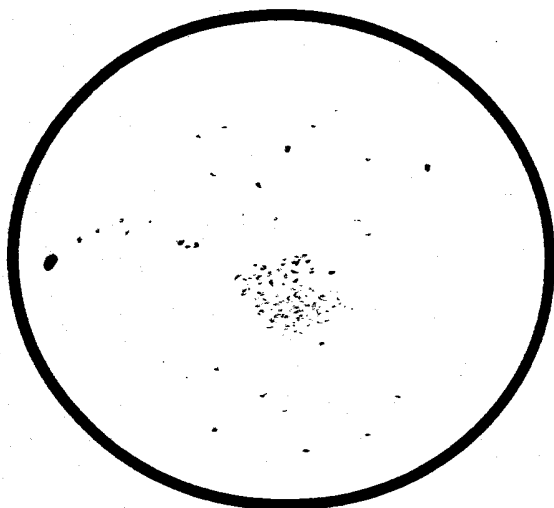
Seeing 7+ Transparency 4+

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can both the cluster and nebula be seen with direct vision, or is averted vision required?
- Is there an overall shape of the object or is it simply irregular? Roundish but "flat" on side
- Is any part of the outer edge of the nebula sharply defined? cluster fairly
- Are the stars more concentrated in any one particular area? How many stars are in the cluster? ~60-70
- Is the cluster embedded in the nebula or is there a distinct separation?
- Is any part of the nebula brighter or more concentrated? cluster Note noticeably brighter than S
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? ↑
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? low power
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

BRAD YOUNG

TULSA, OKLAHOMA

NOTE NO LEADS
OBSERVATION RECORD SET
11/19
RR's
bolide

OBSERVATION:

GENERAL NOTES:

INSTRUMENT: EYE 10X50 4.5" POWER: 10X 45X 90X 220X 440X

TIME:

SEEING: CLARITY:

DATE: 11/23/2017

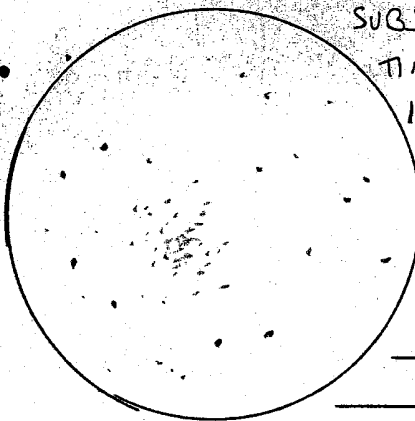
LOCATION: 195

SUBJECT: NGC 2423

TIME: 5:30 COT

INSTRUMENT: 4.5"

NOTES: 45X

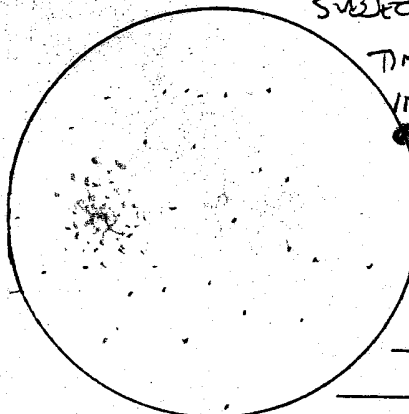


SUBJECT: NGC 2374

TIME: 5:35 COT

INSTRUMENT: 4.5"

NOTES: 45X



CALDWELL
58

SUBJECT: NGC 2360

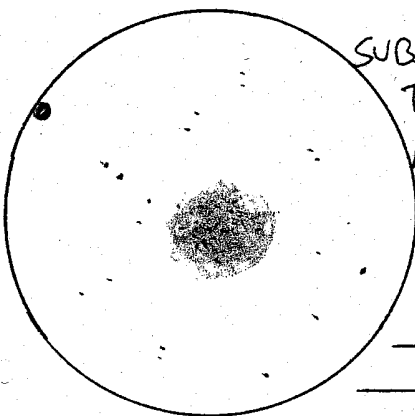
TIME: 5:40 COT

INSTRUMENT: 4.5"

NOTES: 45X

ONLY 1/2 AS

BIG AS DRAWN



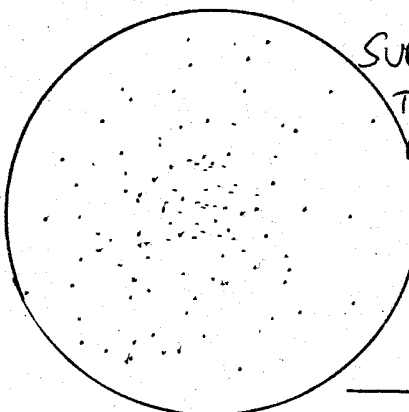
SUBJECT: M48

TIME: 5:45 COT

INSTRUMENT: 4.5"

NOTES: 45X

WOL



Object type: Planetary Nebula

Crawell

Object ID: N6C 3242

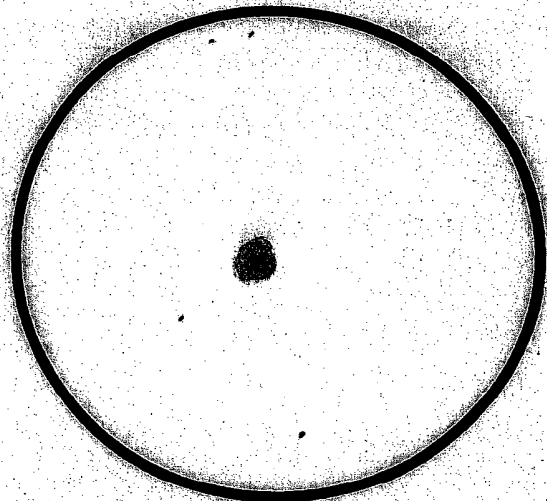
59

Const.: HylObserver B.Y.

RA: _____ Dec.: _____

Date 3/9/4

Mag: _____ Size: _____

Time 9:30-9:42 CSTLocation Home (!)Seeing 8 Transparency 5Instrument ETX 125Size 125Eyepiece 6Field of view _____ Power 316w/ & w/o neb filteralso 183x (12.4mm w/filter)

- What is the overall shape? Round/oval
- Is this planetary easy or difficult to identify in your field? even @ 47x
- What is the color of this planetary? Blue-grey
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk sharp or diffuse? extended w/power & filter
- Is the center slightly brighter, darker, or the same brightness as the edges?
- Any suggestions for observing this nebula (i.e. filter, power, field of view, etc.)? look for dbl to N & shape
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description SEEMS TO HAVE SOME INTERNAL STRUCTURE(ESP. @ 316x) BUT HARD TO DESCRIBE -HOLLOW TUBES ??

✓ COPY
FOR
PNOC

Observing Log

Object type: Planetary Nebula

CALDWELL

Object ID: Nbc 3242

Const.: Hyd

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY 59

Date 3/11/4

Time 9:35 CST

Location RMCC

Seeing 7+ Transparency 5

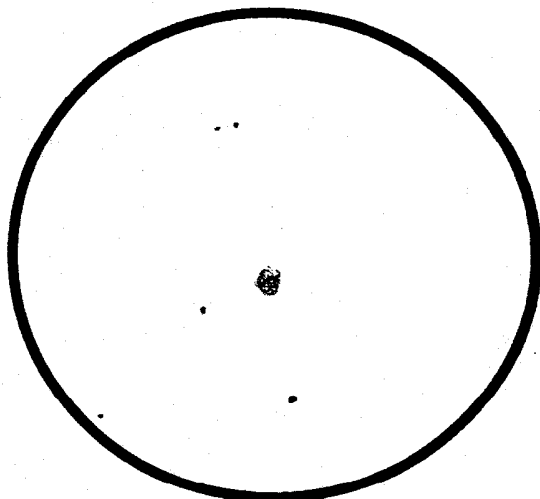
Instrument ETX125

Size 125

Eyepiece 12.4

Field of view _____ Power 153x

+ n.b. filter



- What is the overall shape? Oval
- Is this planetary very easy or difficult to identify in your field? even in finder!
- What is the color of this planetary? bluish gray
- Is it disk-shaped or is it more stellar in appearance?
- Are the edges of the disk very sharp or diffuse?
- Is the center brighter, darker, or the pretty much same brightness as the edges?
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? No

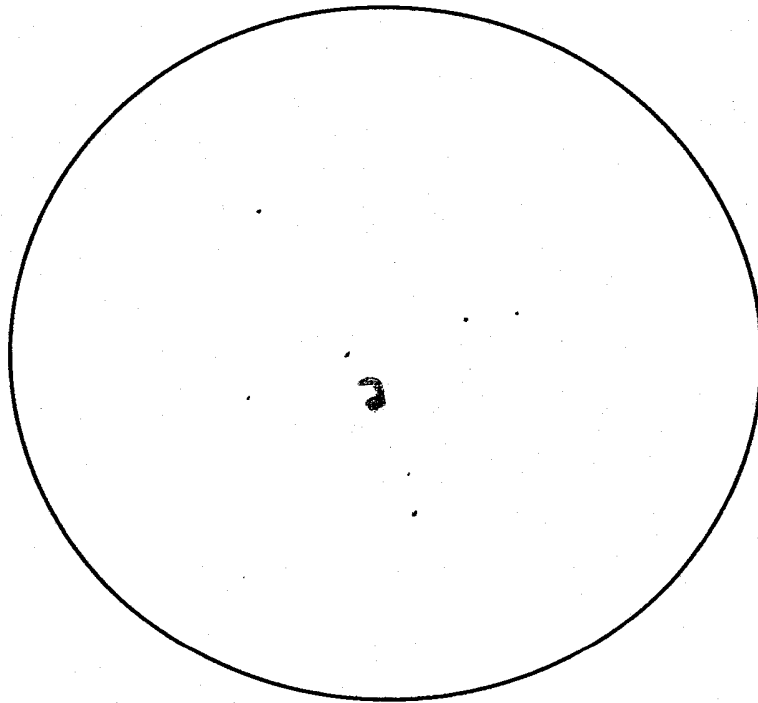
Description _____

CARPWELL 60 & 61

DATE 4/26/3 TIME 11:55 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT N6C 4038/39 LOCATION RMCO HOME _____



NOTE
(9/2/03)
DID NOT
"SEPARATE"
THE 2
OBJECTS

SLIGHT "C" SHAPE - DIDN'T APPEAR - NOT BRIGHT

CURIOUS GLOW ALMOST BRIGHTER ON OUTSIDE

EDGES THAN "NUCLEUS"

Observing Log
Object type: Galaxy

CARDWELL
62

Object ID: NGC 247

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B7

Date 9/19/3

Time 11:30 CDT

Location RMce

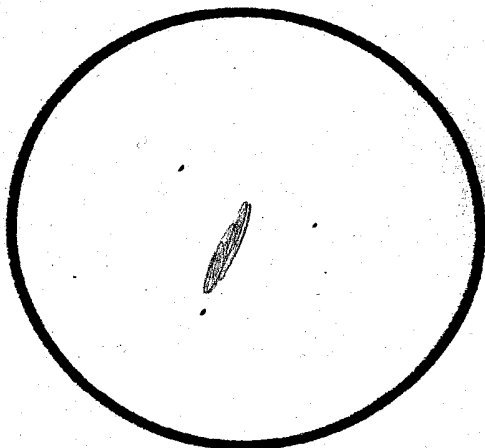
Seeing 8 Transparency 5

Instrument ETX-125

Size 125mm

Eyepiece 40mm

Field of view _____ Power 47x



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? very elong.
- Is a core noticeable? No
- Is the core compact or stellar? None
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Very faint but seen w/AV

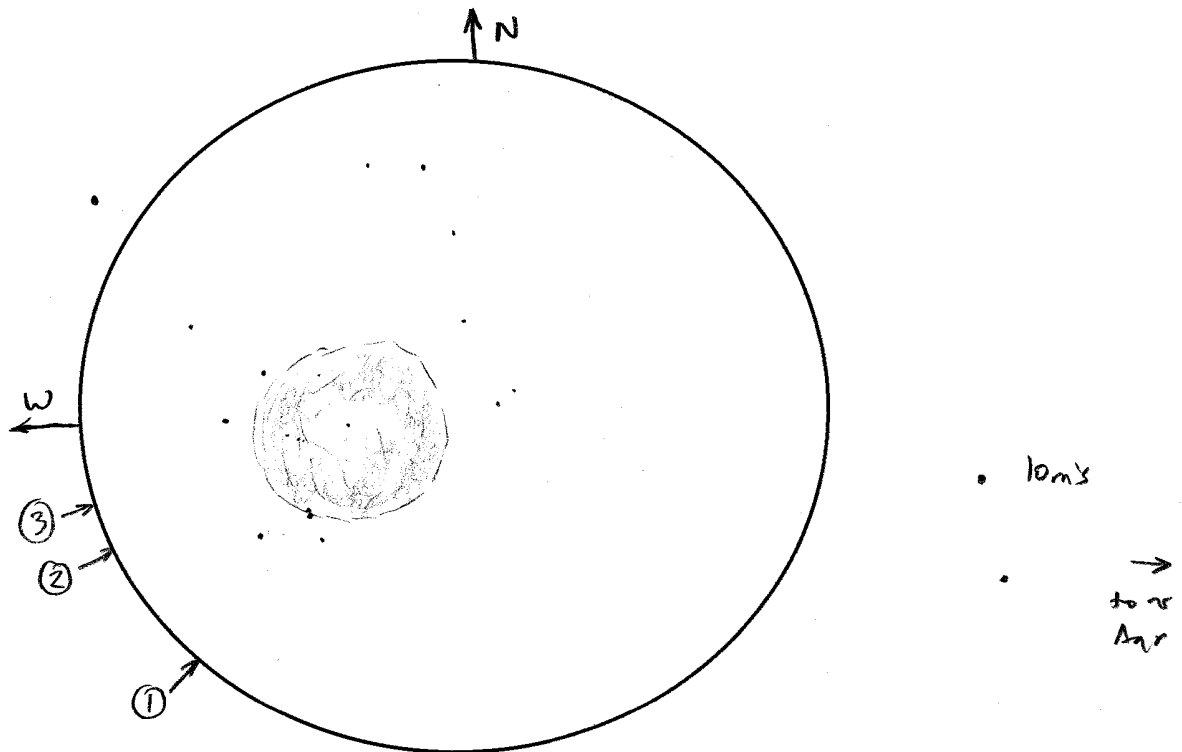
(1999 Cole & Pratt)

11/6/2 Caldwell 63

DATE 11/6/2 TIME 8:30 CS CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT N6C 7293 LOCATION RMCC HOME see below



UNBELIEVABLY EASY & WONDERFUL - SEE IT COMING INTO FIELD

NO FILTER W/L.E.D.V. STARR EASY - EVEN C.S. ONCE TAGGED

ASS
AMORPHOUS
BLOB-GLOW

W/L.E.A.V. FOUND C.S. & COMPLETED ROUND OUTLINE

STILL NO REAL STRUCTURE

W/L.E.A.V. MOTTLED NEAR PAIR ^③ OF STARS - BRIGHTEST PART

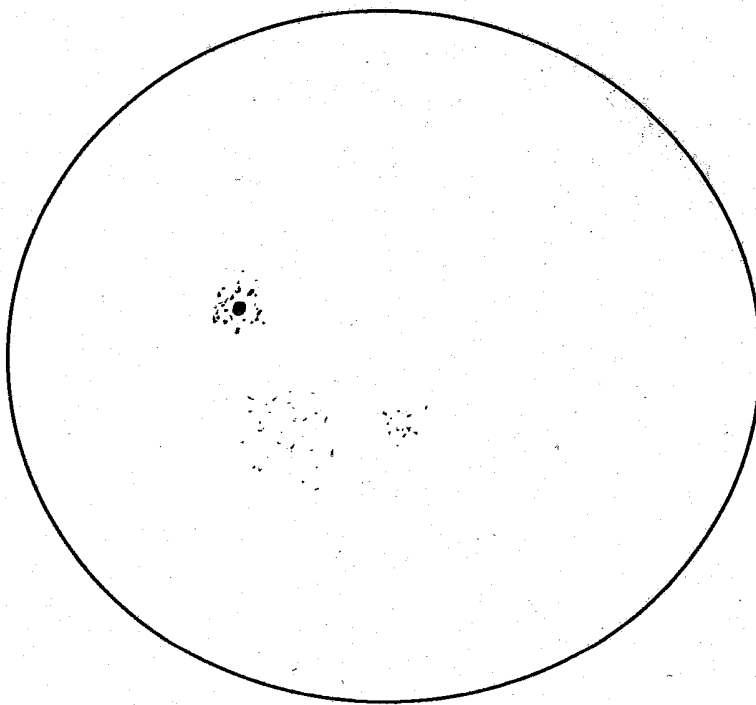
W/FILTER JUMPS OUT! L.E.A.V. ESPECIALLY CRISP - SOME HINT OF
STRUCTURE ESP. NEAR PAIR ^③

L.E.A.V. - BRIGHTEST VIEW BUT NO STRUCTURE.

① IS CLOSE NEAR PAIR - MORE SURPRISE (808?) SEE WDS DATA NEXT PAGE
SEE PHOTO P. 195 BURNHAM

CALDWELL 64

DATE 4/4/3 TIME 7:35 ^{wind} CST EDT CLARITY I II III IV V SEEING I II III IV V
INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X
OBJECT NGC 2362 LOCATION RMCC HOME _____



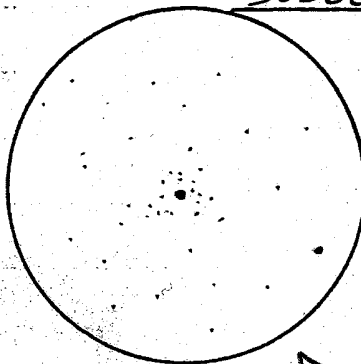
NGC 2362 surrounds TCMa. To E I see 1 faint large
fuzzy group & then small med. fr. group - not on
T.Dion

LOCATION: MC's

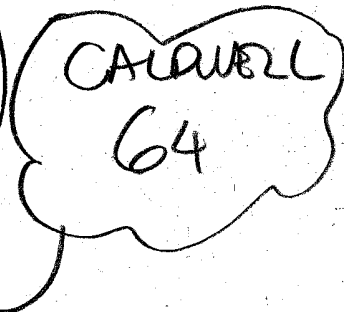
DATE: 2/7-18/94 TIMES: 9:30-7:00 ^{CP} ~~CP~~

DESCRIPTION: DAVID LEFT HIS REFRACTOR

SUBJECT: NGC 2362



90X LOWLY "BEES"



CALDWELL
64

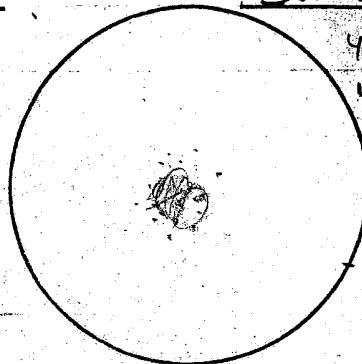
C: I II III IV V

S: I II III IV V

I: EYE 10X50 4"5 OTHER

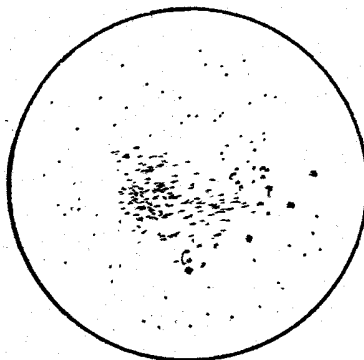
P: 0X 10X 45X 90X 220X 440X

SUBJECT: NGC 2354



45X GETTING
WASHED BY LOW
MOON COMING UP

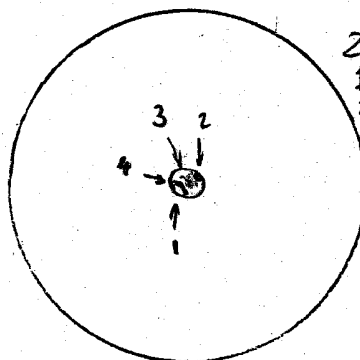
SUBJECT: M94



90X GIVES A
GREAT VIEW!

M94 IS A
GRASSY!
7/27/03
IS THIS
M93??

SUBJECT: ♂



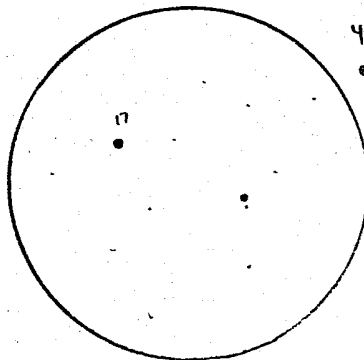
220X 1:35 am

1: NPE

2: SPC

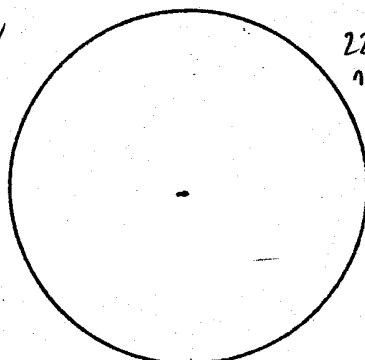
3: X shaped hazy lines
4: DARK SPOT ON NPE
LOOKED AGAIN 5:30
TOO LOW!

SUBJECT: 1866



45X 40° 25" Y + deep yellow
easy

SUBJECT: ♂ 119 (L.T.)



220X 300° Dn 20.5
not too difficult
Wot two glows

Observing Log

Object type: Galaxy

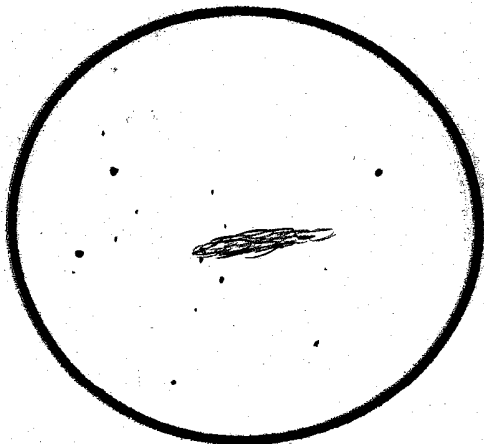
CALDWELL
65

Object ID: NGC 253

Const.: Cet

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 9/19/13

Time 11:30 CDT

Location RMce

Seeing 8 Transparency 6

Instrument ETX 125

Size 125mm

Eyepiece 4mm

Field of view _____ Power 47x

- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Elong lenticular
- Is a core noticeable? No
- Is the core compact or stellar? None
- Can any detail be seen between the core and the outer envelope of the object? See lug
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? Some
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Wow, almost bright - very strange shape & shine

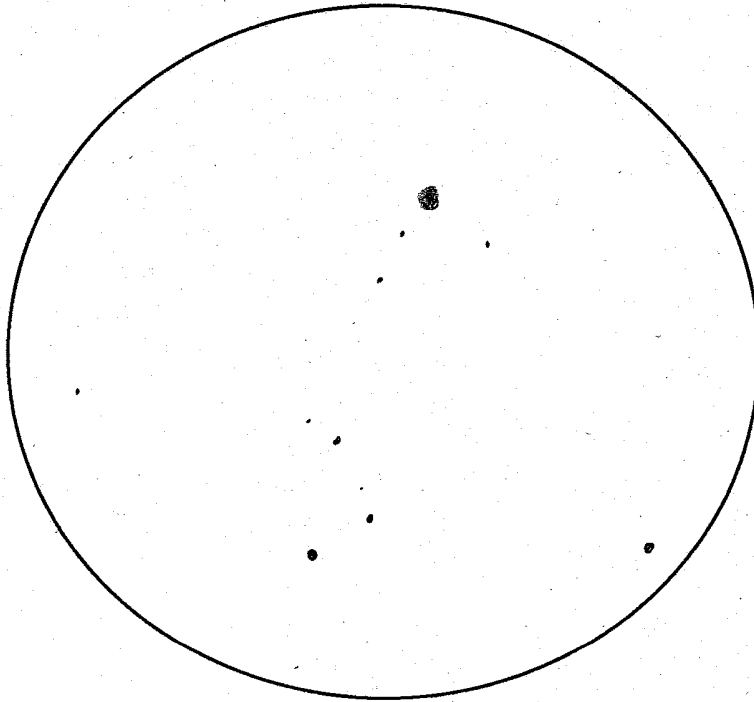
5/30

CALDWELL 66

DATE 5/30/3 TIME 11:25 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT NCC 5694 LOCATION RMCC HOME



73x field also amazing!

Not much res - just hint of mottle

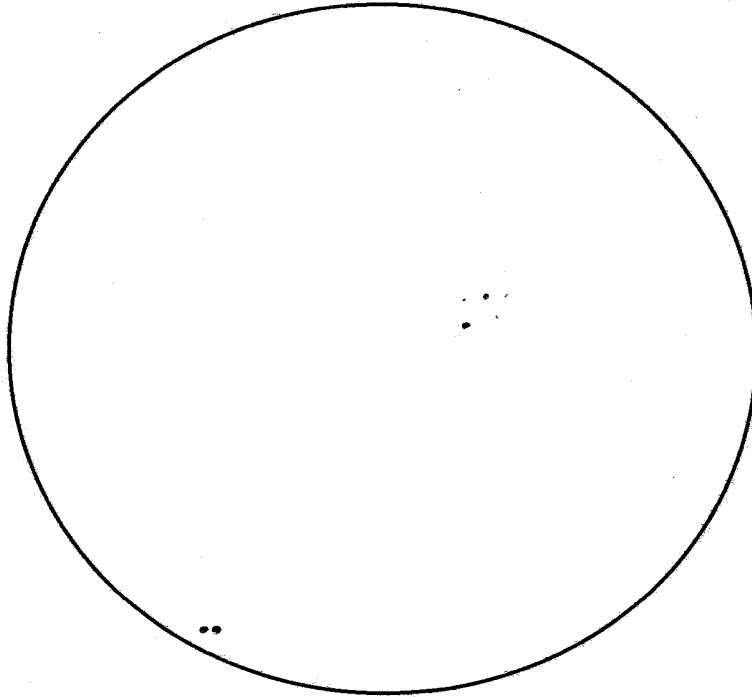
Brighter nucleus

Caldwell 68 (NGC 6729)
@MCC

DATE 8/9/2 TIME 12:10 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 4/f. filter

OBJECT NGC 6726/27/29 + DESCRIPTION _____



Definite neb around 2 to N, neb filter helps.

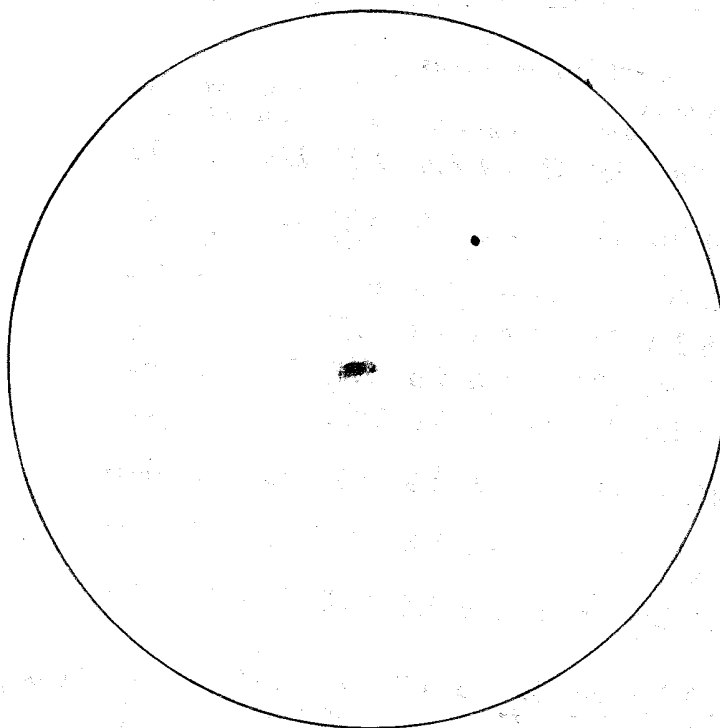
CARDWELL 69

CFN#2

DATE 7/23/3 TIME 11:20 CST CDT CLARITY 1 II III IV V SEEING 1 II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 53X 475X

OBJECT MCC 6302 (BUT NEB) LOCATION RMCC HOME _____



VIEW IS
UPSIDE
DOWN
FROM
WHAT I
SAW

WITH NEBULA FILTER - VERY SMALL & BRIGHT

Observing Log

Object type: Galaxy

C 70

Object ID: N6c 300

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 11/19/3

Time 7:40 CST

Location LMCE

Seeing 8 Transparency 4+

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47X



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Sploches (@ 9:15 pm - could almost complete round "face")
- Is a core noticeable? yes
- Is the core compact or stellar?
- Can any detail be seen between the core and the outer envelope of the object? Splochy pattern of glow
- Are the edges of the outer envelope sharp or very diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?
- Are there any other deep-sky objects in the same field of view? If so, what? N6

Description Revisited @ 9:15 pm CST when higher - brighter
showed against fainter sky with better, no more
detail, just easier to enjoy.

Observing Log

Object type: Cluster/Nebula

CARAVEL
71

Object ID: NGC 2477

Const.: Ry

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer 34

Date 3/11/14

Time 9:20 CT

Location RNCC

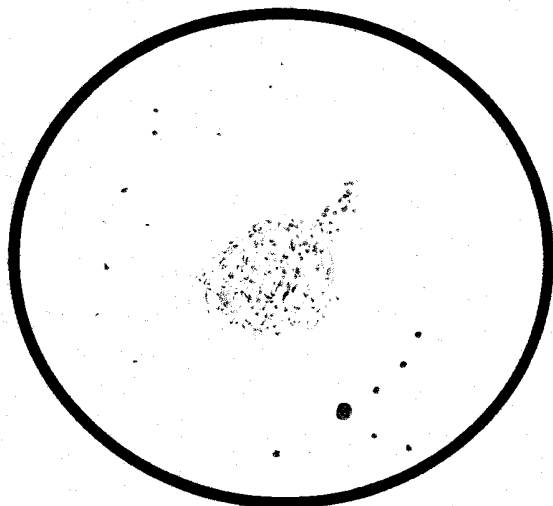
Seeing 7+ Transparency 4+

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can both the cluster and nebula be seen with direct vision, or is averted vision required? *does add some more unres'd glow*
- Is there an overall shape of the object or is it simply irregular? *Round w/ line of faints off to NE*
- Is any part of the outer edge of the ^{cluster} nebula sharply defined? *Fairly well*
- Are the stars more concentrated in any one particular area? How many stars are in the cluster? *No - hundreds w/ unres'd glow*
- Is the cluster embedded in the ~~nebula~~ ^{nebula} or is there a distinct separation?
- Is any part of the ^{cluster} nebula brighter or more concentrated? *No - very even*
- Is there any particular area where you notice an absence of stars in this cluster? *No*
- Are there any voids or dark patches, or lanes in the ^{cluster} nebula? Any bright filaments or streamers? *line of faints is even in front of many cluster*
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? *low power*
- Are there any other deep-sky objects in the same field of view? If so, what? *No*

Description _____

Observing Log

Object type: Galaxy

C72

Object ID: Nt 55

Const.: Scl

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 11/19/3

Time 7:10 pm CDT

Location RMCC

Seeing 8+ Transparency 5

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this galaxy be seen with direct vision, or is averted vision ^{to lengthen} required?
- What is the overall shape? very elongated
- Is a core noticeable? Yes
- Is the core not very compact or stellar?
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Still a little low - but very easily seen very
elongated - fun to trace out as far as you can

Went back @ 7:45 pm - yes, west side is "cut off"

Revisited @ 9:10 pm when higher - same view!

Observing Log
Object type: Globular Cluster

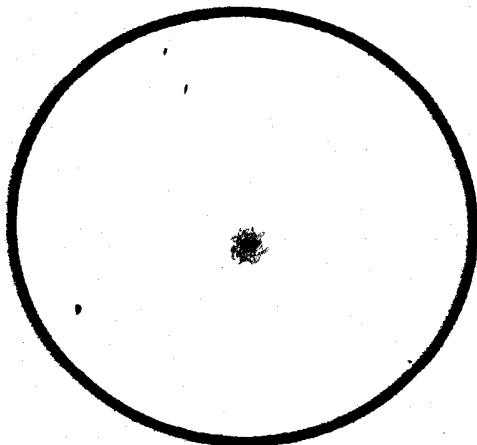
CHANDLER
73

Object ID: NbC 1851

Const.: Col

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer BY

Date 3/11/4

Time 7:45 pm CST

Location RMCC

Seeing 8 Transparency 4

Instrument ETX 125

Size 12.5

Eyepiece 12.4

Field of view _____ Power 153

• Can this cluster be seen with easy direct vision, or is averted vision required?

• Is the core unusually bright, compact or not distinguishable?

• Is this globular cluster highly or loosely concentrated?

• Is any part of the cluster resolved into stars? yes - edges

• Is any mottling visible? yes - 1/2 in to core

• Can the edges be resolved? Barely yes

• Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____



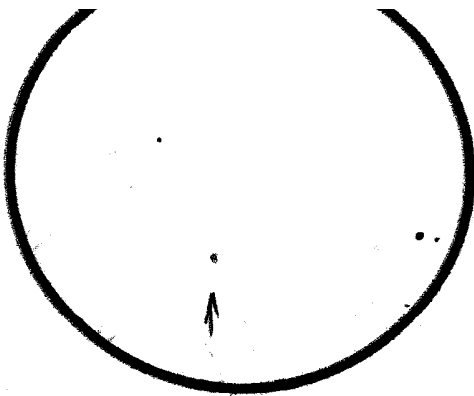
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Seeing 2 Transparency 4
Instrument 10x50
Size 50
Eyepiece -
Field of view 7° Power 10

- Can this cluster be seen with ~~direct vision~~, or is averted vision required?
- Is the ^{core} core unusually bright, compact or not distinguishable?
- Is this globular cluster highly or loosely concentrated? CAN'T TELL
- Is any part of the cluster resolved into stars? NO
- Is any mottling visible? NO
- Can the edges be resolved? NO - JUST A FUZZY "SPARK" THAT'S DIFFERENT FROM OTHER 7m SEEN
- Are there any other deep-sky objects in the same field of view? If so, what? NO

Description SEEN EASILY w/ 10x50's - ALL 7-8m plots in area
seen & many other stars w/ n/eye

Observing Log
Object type: Globular Cluster

Chowen
73

Object ID: Ngc 1851

Const.: Col

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B. Y.

Date 3/6/4

Time 8:00 pm CST

Location Home

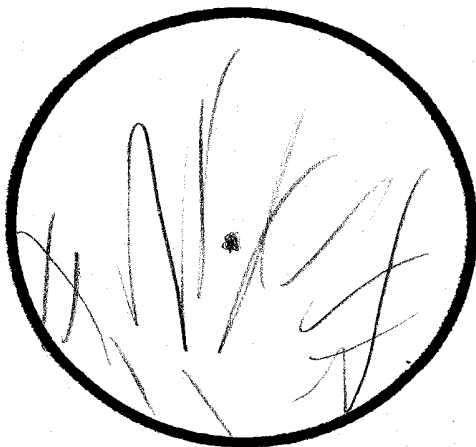
Seeing 4 Transparency 7

Instrument ETX 125

Size 125

Eyepiece 40

Field of view _____ Power 47

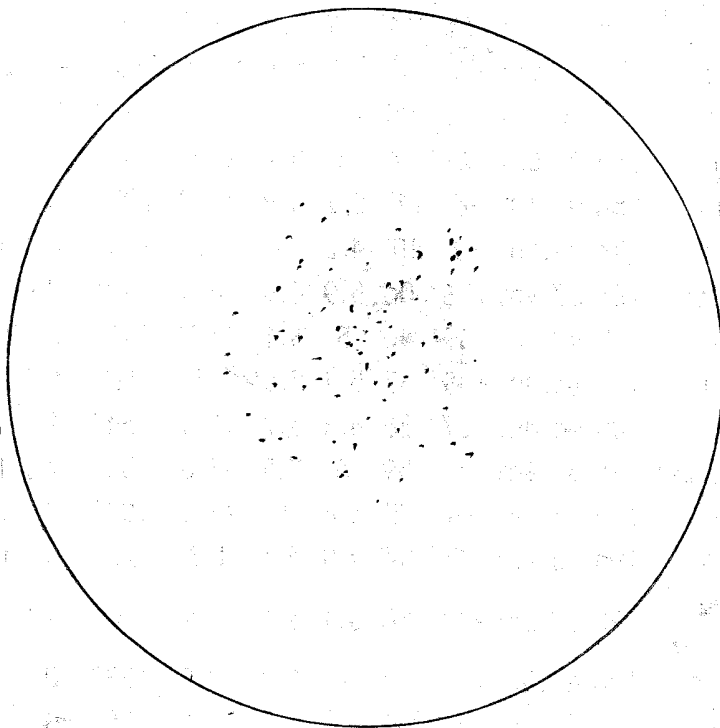


- Can this cluster be seen with direct vision, or is averted vision required?
- Is the core unusually bright, compact or not distinguishable?
- Is this globular cluster highly or loosely concentrated? Not sure just a glow
- Is any part of the cluster resolved into stars? No
- Is any mottling visible? No
- Can the edges be resolved? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Very low @ home through bare tree
branches w/ full moon - need a better
observation - no detail at all

CARDWELL 75
CFN#2

DATE 7/23/3 TIME 11:10 CST CDT CLARITY I II III IV V SEEING I II III IV V
INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X
OBJECT N6C 6124 LOCATION RMCC HOME _____



VIEW SHOWN IS
UPSIDE
DOWN
FROM WHAT
I SAW

Also well resolved & seen with 10x50's - great sight

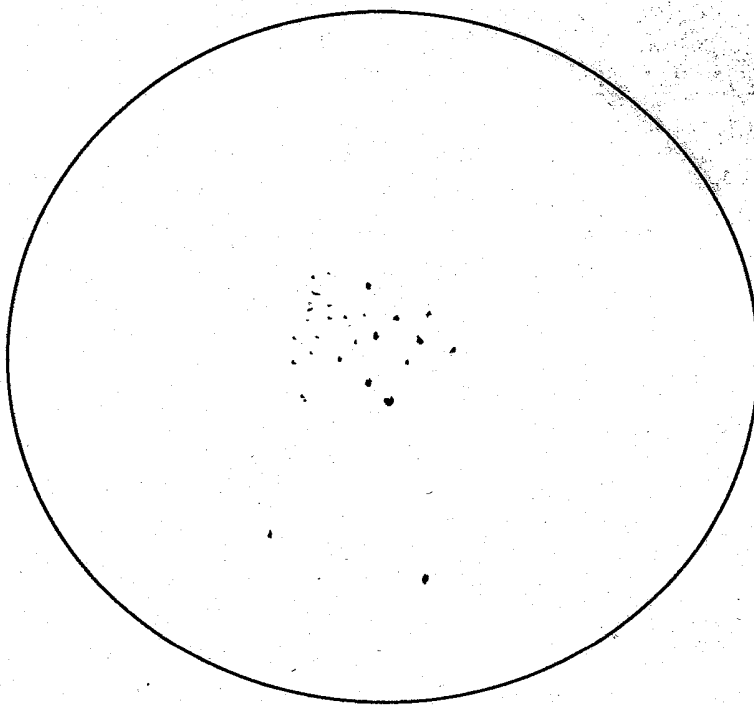
MSRA 2

CALDWELL 76

DATE 6/2/03 TIME 11:40 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT RTX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT N6c 6231 LOCATION RMCC HOME _____



• ← orange

S_{1,2} Sco

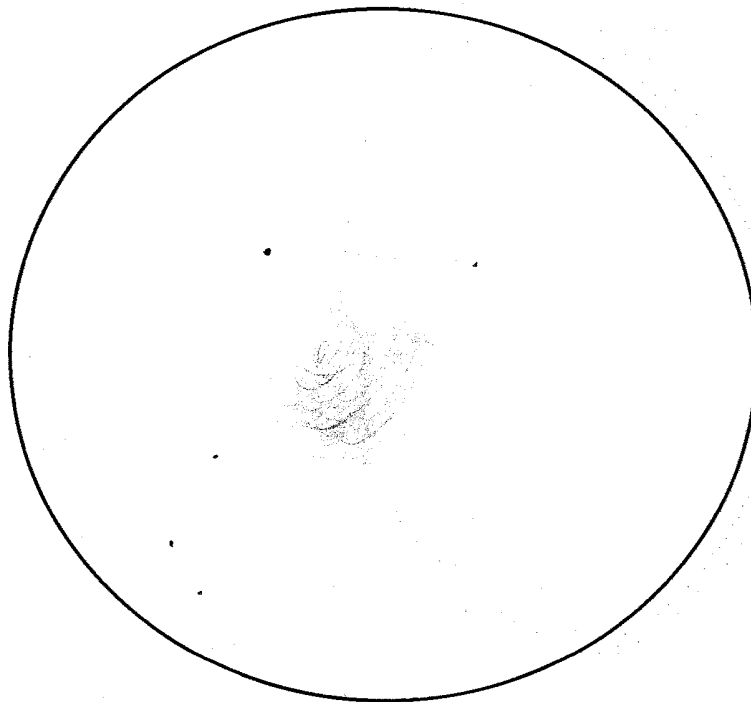
Sparsely bright cluster low & quite dimmed by
poor skies.

Caldwell 80

DATE 6/27/3 TIME 9:55 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 33X 153X 475X

OBJECT ω Cen NGC 5139 LOCATION RMCC HOME _____



EXTREMELY LOW - WASHED OUT BUT DEFINITELY

SEEN IN 10x50's, 6x30 FINDER & ETX-125

Chawre

5/30

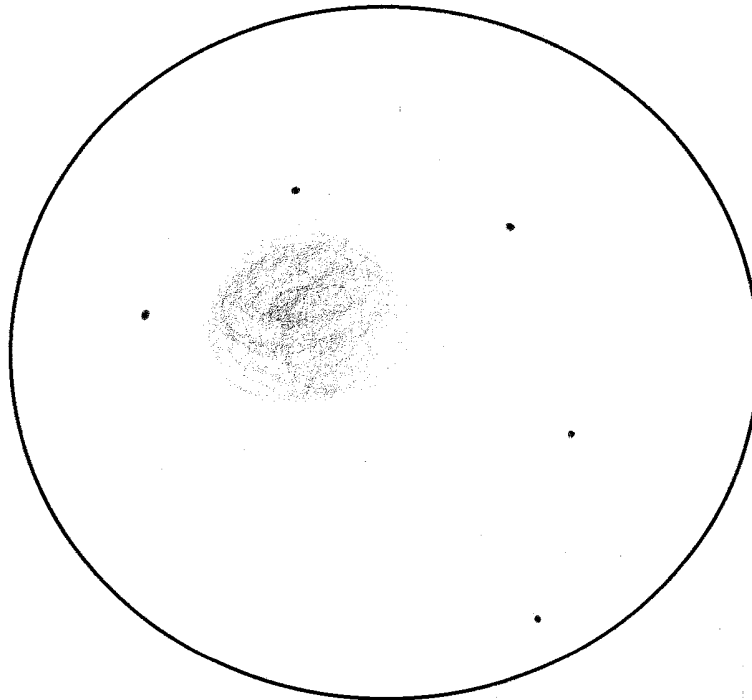
80

DATE 5/30/83 TIME 10:55 CST CDT CLARITY I II III IV V SEEING I II III IV V

INSTRUMENT ETX-125 10x50 EYE POWER 10X 73X 153X 475X

OBJECT W Cen LOCATION RMCC HOME

NHC 5139



Observing Log

Object type: Nebula / cluster

Ceph
AFTER
Aurora

Object ID: Nfe 7023

Const.: _____

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 12/3/4

Time 7:30

Location RMCC

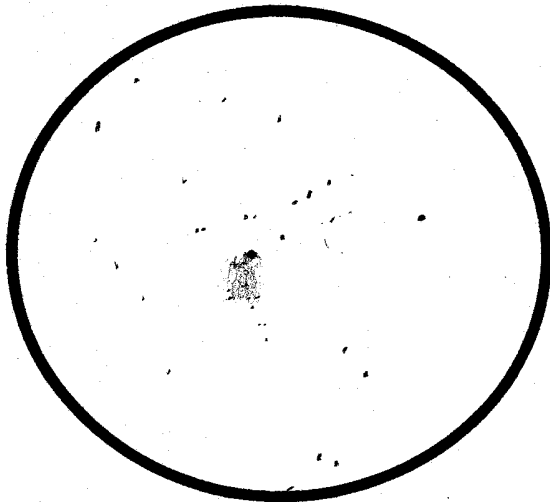
Seeing II Transparency I-

Instrument 8X125

Size 125

Eyepiece 40

Field of view _____ Power 47



- Can this nebula be seen with direct vision, or is averted vision required?
- Is there an overall shape of the object or is it simply irregular? Fan-like
- Is any part of the outer edge of the nebula sharply defined? No
- Is any part of the nebula brighter or more concentrated? Near GM
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? No
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula? Yes, a few
- Any suggestions for observing this nebula (I.e. filter, low power, field of view, etc.)? res'd
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description _____

Observing Log

Object type: Nebula

= CARDWELL 4
AFER AWARD

Object ID: Nbe 7023

Const.: Cep

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer B Young

Date 12/30/14

Time 8:30 CST

Location NMCC

Seeing III Transparency II

Instrument 8x125

Size 125

Eyepiece 12M

Field of view _____ Power 153x



- Can this nebula be seen with direct vision, or is averted vision required?
- Is there an overall shape of the object or is it simply irregular? FANS & FOG AROUND 6m
- Is any part of the outer edge of the nebula sharply defined? NO
- Is any part of the nebula brighter or more concentrated? FANS
- Is there any particular area where you notice an absence of stars in this cluster? NO EVEN 1 G06
- Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers?
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula? NO OC
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?
- Are there any other deep-sky objects in the same field of view? If so, what? NO

Description NOTE: T Cep now = 8m plot 125 new (not 7m plot)

Observing Log

Object type: Galaxy

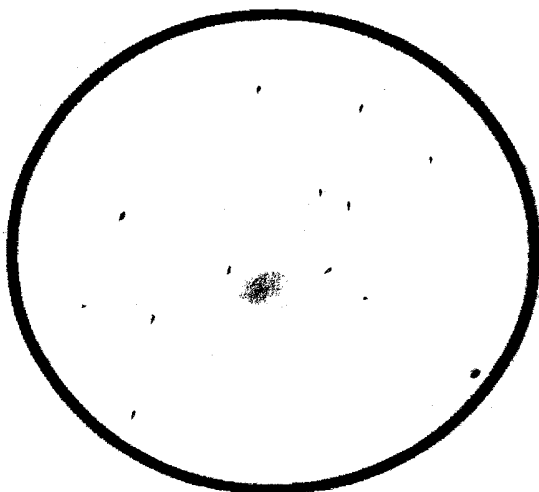
C 77

Object ID: NGC 5128

Const.: Cen

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B. Young

Date 4/22/9

Time 2:45 AM

Location RMCC

Seeing I - Transparency II

Instrument XT-12

Size 12

Eyepiece 2X42

Field of view _____ Power 75

- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? Round
- Is a core noticeable? Yes
- Is the core compact or stellar?
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Just too low for dark lane etc.

C 78

Observing Log

Object type: ~~Open~~ Cluster

GLOBULAR

Object ID: Crab 78

Const.: (NGC 6541)

Observer B Young

RA: _____ Dec.: _____

Date 7/5/7

Mag: _____ Size: _____

Time 11:35

Location RMCC

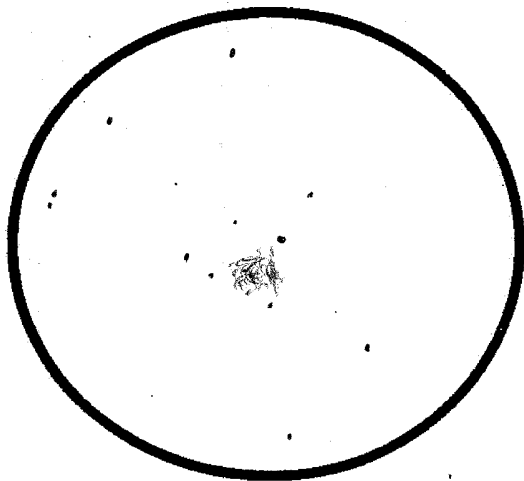
Seeing II Transparency III

Instrument XT12

Size 12

Eyepiece 10

Field of view _____ Power 150



- Can this cluster be easily distinguished from the background stars? yes
- What is the overall shape of the object? round
- How many stars can you count in the cluster? some res on edge
- Are the stars more concentrated in any one particular area? far and core
- Is this cluster resolved fully or is there some mostly background nebulosity noticed?
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any particularly bright stars involved in this cluster? If so, do they show any colors? No
- Are there any other deep-sky objects in the same field of view? If so, what? No

Description Low but great res!

Observing Log

Object type: Galaxy

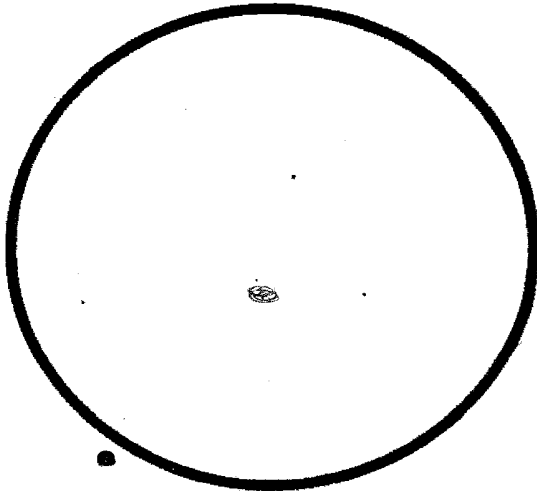
Chandra
35

Object ID: NGC 4889

Const.: Com

RA: _____ Dec.: _____

Mag: _____ Size: _____



Observer B York

Date 7/2/7

Time 12:50 CDT

Location RMCC

Seeing II Transparency II-

Instrument X12

Size 12

Eyepiece 10

Field of view _____ Power 150

- Can this galaxy be seen with direct vision, or is ^{Use} averted vision required? be careful
- What is the overall shape? Round
- Is a core noticeable? No
- Is the core compact or stellar? —
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? Didn't see other in fov

Description _____

